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Sequence 7, Appli
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                                                                                 ; Search time 12 Seconds (without alignments) 79.718 Million cell updates/sec
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Sequence 916, 1
Sequence 82, App
                                                                                                                                           US-10-618-797-2
803
1 MRSCPEEQYWAALLGTCMFC......FPQLPPTQLSGLGFNIGGLL 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Description
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1: /cgn2_6/ptodata/1/pubpaa/USO9_NEW_PUB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/USO6_NEW_PUB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/USO7_NEW_PUB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/PUSIO_NEW_PUB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/USIO_NEW_PUB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/USIO_NEW_PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/USIO_NEW_PUB.pep:*

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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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US-10-742-634-7

US-10-967-527A-21

US-11-113-424-63

US-11-1076-187-5

US-11-182-946-8

US-10-131-826A-314

US-10-997-78-2

US-10-997-78-2

US-11-126-16

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US-11-126-16

US-11-132-285-6

US-11-132-285-6

US-11-039-398-14
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US-10-995-561-691
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                                                                                                                                                                                                                                              51470 segs, 6736768 residues
                                                                                   December 20, 2005, 10:34:32
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Maximum Match 100%
Listing first 45 summaries
                                                       OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Match Length
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Perfect score:
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688,	Sequence 1133, Ap	9, Ap	Sequence 8, Appli	Sequence 9, Appli	37,	Sequence 1155, Ap	Sequence 1116, Ap	Ξ	Sequence 78, Appl	Sequence 6, Appli	Sequence 7, Appli		Sequence 184, App	Sequence 13, Appl	w	Sequence 59, Appl	Sequence 1016, Ap	Sequence 1015, Ap	
US-10-995-561-688	US-10-821-234-1133 US-11-108-172-1068	US-10-742-634-9	US-10-967-527A-8	US-10-645-441-9	US-11-113-424-37	US-10-821-234-1155	US-11-108-172-1116	US-10-821-234-1119	US-10-763-712A-78	US-11-067-121-6	US-10-645-441-7	US-10-645-441-8	US-11-113-424-184	US-11-182-946-13	US-11-082-389-398	US-11-186-284-59	US-10-995-561-1016	US-10-995-561-1015	
	5179 7					4419 6									598 7				
7.8	. c	7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.6	7.5		7.5	7.5	7.5	7.5	
63	63 6	62.5	62.5	62	62	62	62	61.5	61.5	19	61	61	60.5	60.5	60.5	60.5	60.5	60.5	
56	78	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	

# ALIGNMENTS

RESULT 1	
US-10-967-527A-19	A-19
; Sequence 19	Sequence 19, Application US/10967527A
, Publication No. US20	Publication No. US20050256041A1
APPLICANT:	Pox. Brian A.
APPLICANT	APPLICANT: Holloway, James L.
, APPLICANT:	Paul O.
, TITLE OF II	NVENTION: Ztnfr14, A Tumor Necrosis Factor
; TITLE OF II	TITLE OF INVENTION: Receptor
CURRENT AP	CURRENT APPLICATION NUMBER: US/10/967,527A
CURRENT FI	CURRENT FILING DATE: 2004-10-18
, PRIOR APPL	PRIOR APPLICATION NUMBER: 60/511,698
, PRIOR FILL	FILING DATE: 2003-10-16
NUMBER OF S	OF SEC ID NOS: 51
SEO ID NO 19	
; LENGTH: 292	92
; TYPE: PRT	
; ORGANISM: hom US-10-967-527A-19	o sapiens
Query Match	
Matches 63	. Similarity 27.1%; Fred. No. 8.66-13; 62; Conservative 10; Mismatches 52; Indels 105; Gaps
7	1 MRSCPEBOYWAALLGTCMFCKALCHHOSQRTCAASCGEFWDLSPGDSVITP
1. 1.	MRSCPEROYWDP1.GTCMSCYTTCNHOSORTCAAPCRSI.SCRKEOGKFYDHILLRDCISCA
Oy 52	52 NACPQSTLWPHSQVABERMAGGDVQ
Db 91	SICGQHPKQCAYFCENKLRSPVNLPPELRRQRSGEVENNSDNSGRYQGLEHRGSEA
77 YO	
Db 147	SPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPRQSPA
Oy 108	108CTCCSRCLECMLSIIFPQLPPTQLSGLGP 136
Db 207	207 KSSODHAMEAGSPVSTSPBPVETCSFCFPCRAPTOESAVTP 247

9

GSEA 146

ISCA 90 94 ----

VITP 51

QSPA 206 ---- 107

RESULT 2 US-10-742-634-7 Sequence 7, Application US/10742634 ; Publication No. US20050249671A9

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---GEFWDLSPGDSVITP 51
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9; Gaps
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GENERAL INVENTION:
GENERAL INVENTION:
TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-225
GURRENT APPLICATION NUMBER: US/11/113,424
CURRENT APPLICATION NUMBER: 00/256,704
PRIOR PELING DATE: 2000-12-19
PRIOR APPLICATION NUMBER: 60/211,590
PRIOR APPLICATION NUMBER: 60/257,314
PRIOR APPLICATION NUMBER: 60/257,314
PRIOR APPLICATION NUMBER: 60/311,613
PRIOR FILING DATE: 2001-08-10
PRIOR FILING DATE: 2001-08-29
PRIOR FILING DATE: 2001-08-29
PRIOR FILING DATE: 2001-08-29
PRIOR APPLICATION NUMBER: 60/315,617
PRIOR APPLICATION NUMBER: 60/315,617
PRIOR APPLICATION NUMBER: 60/324,075
PRIOR FILING DATE: 2001-09-24
PRIOR FILING DATE: 2001-09-14
PRIOR FILING DATE: 2001-09-14
PRIOR FILING DATE: 2001-05-29
PRIOR FILING DATE: 2001-05-29
PRIOR FILING DATE: 2001-05-29
PRIOR FILING DATE: 2001-05-02
NUMBER OF SEQ ID NOS: 190
SOFTWARE: PATENTIN VUMBER: 60/284,075
PRIOR FILING DATE: 2001-05-29
SOFTWARE: PATENTIN VUMBER: 60/284,075
PRIOR FILING DATE: 2001-05-02
NUMBER OF SEQ ID NOS: 190
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Sequence 21, Application US/10967527A

Publication No. US20050256041A1

GENERAL INFORMATION:

APPLICANT: Fox, Brian A.

APPLICANT: Holloway, James L.

APPLICANT: Holloway, James L.

APPLICANT: Rospeach, Paul O.

TITLE OF INVENTION: Ztnfr14, A Tumor Necrosis Factor

FILE REFERENCE: 03-17

CURRENT PLING DATE: 2004-10-18

PRIOR APPLICATION NUMBER: 60/511,698

PRIOR PILING DATE: 2003-10-16

NUMBER OF SEQ ID NOS: 51

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 21

LENGTH: 249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match 13.4%; Score 107.5; DB 6; Best Local Similarity 32.3%; Pred. No. 0.00051; Matches 21; Conservative 10; Mismatches 25;
                                                                   10 MRSCPEEGYWDPLIGTCMSCKTICNHQSQRTCAAFC 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASC---
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Publication No. US20050260713A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: mus musculus US-10-967-527A-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   52 NACPQ 56
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GENERAL INFORMATION:

APPLICANT: Parmelee, David

APPLICANT: Yeh, Ren-Hwa

APPLICANT: Yeh, Ren-Hwa

APPLICANT: Galperina, Olga

APPLICANT: Hibert, David

APPLICANT: Rosen, Craig A.

TILE OF INVENTION: Neutrokine-alpha Conjugate, Neutrokine-alpha Complex, and Uses Th

FILE REFERENCE: 1488.1810002

CURRENT APPLICATION NUMBER: US/10/742,634

CURRENT FILING DATE: 2003-12-22

PRIOR APPLICATION NUMBER: US 60/435,262

PRIOR APPLICATION NUMBER: US 60/467,198

PRIOR FILING DATE: 2003-05-02

NUMBER OF SEQ ID NOS: 17

SOFTWARE: Patentin version 3.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          91 SICGOHPKOCAYFCENKLRSPVNLPPELR----RORSGEVENNSDNSGRYOGLEHRGSEA 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASC-----GEFWDLSPGDSVITP 51
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 24.3%; Score 195; DB 6; Length 293; Best Local Similarity 27.0%; Pred. No. 1.8e-12; Matches 62; Conservative 11; Mismatches 51; Indels 106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 3
US-10-967-527A-20
i Sequence 20, Application US/10967527A
i Sequence 20, Application US/10967527A
i Publication No. US20550256041A1
i GENERAL INFORMATION:
i APPLICANT: Fox, Brian A.
i APPLICANT: Sheppard, Paul O.
i TITLE OF INVENTION: Zenfr14, A Tumor Necrosis Factor
i FILE REPERENCE: 03-17
CURRENT APPLICATION NUMBER: US/10/967,527A
i CURRENT FILING DATE: 2004-10-18
i PRIOR FILING DATE: 2003-10-16
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 20
LENGTH: 48
TYPE: PRT
ORGANISM: homo sapiens
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CTHER INFORMATION: cysteine rich
US-10-967-5278-20
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LENGTH: 293
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512 CDEASQVALENCSAVADTRCGCK-PGWFV---ECQVSQCVSSSPFYCQPCLDCGALHRHT 567
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 56 HRKAA------QCDPCIPGVSFSPDHHTRPHCESCRHCNSGLLVRN--CTITANAEC 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 RSCPEROYWAALLGTCMFCKAICNHQSQRTCAASCGBFWDLSPGDSVITPNACPQSTLWP 61
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TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 73; DB 7; Length 260; Pred. No. 1.2; 7; Mismatches 37; Indels
                                                                                                                                                                                                                                              Jeguence 8, Application US/11182946

j Sequence 8, Application US/11182946

j Publication No. US20050255100A1

j GENERAL INFORMATION:

j APPLICANT: Wei, Ying-Fei

APPLICANT: Gentz, Reiner

j APPLICANT: Ruben, Steven

TITLE OF INVENTION: NAMBER: US/11/182,946

CURRENT APPLICATION NUMBER: US/11/182,946

CURRENT PILING DATE: 2005-07-18

PRIOR APPLICATION NUMBER: US/10/186,643

PRIOR APPLICATION NUMBER: US/10/186,643

PRIOR PILING DATE: 2000-05-18

NUMBER OF SEQ ID NOS: 27

SOFTWARE: Patentin Ver: 2.1

SEQ ID NO 8

LENGTH: 260

TYPE: PRI
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                                                                                                                       568 RILCSRRDIDCGICL 582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 23.5%;
Matches 32; Conservative
                                                                                      105 RVLC----TCCSRCL 115
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Wood, William
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Gurney, Austin L.
Sherwood, Steven
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                                                                                                                                                                                                                                                                                                                                                                                            -----MACTRPPSAPRNAISNVNE- 372
                                                                                                                                                                                                                                                                                              278 CSAEGEWLVPIGKCM-CKA-GYEEKNGTCQVCRPGFFKASPHSQ--TCSKCP----PHS 328
                                                                                                                                                                                                                                                                                                                                                     64 QVAEERWAGGDVQCGTSY-----PSTFLLWPHCLLSVSNMPCSSLPRVLCTCCSRCLEC 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                462 LFCCRGCPAGHYLKAPCTEPCGN-----STCLVCPODTFLAWENHHNSECARCOA 511
                                                                                                                                                                                                                                              4 CPEEQYWAALLGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQSTLWPHS 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     63 ----SQVA-EERMAGGDVQCGTSYPSTFLLWPHCLLS--VSNMP-----CSSL---P 104
                                                                                                                                                                                            Gaps
                                                                                                                                                                                            32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            51;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 9.5%; Score 76.5; DB 7; Length 833; Best Local Similarity 28.1%; Pred. No. 1.5; Matches 38; Conservative 9; Mismatches 37; Indels 5:
                                                                                                                                        DB 7; Length 1005;
                                                                                                                                                                                          61; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: NUCLEAR APPLICANT: A SAPELICANT: A SAPELICANT: A SAPELICANT: Rosen, Craig A SAPELICANT: Rosen, Craig A SAPELICANT: Ran, James G A SAPELICANT: Ran, James G A SAPELICANT: Pan, James G TINTEN OF INVENTION: Death Domain Containing Receptor-4 FILE OF INVENTION: PRISSESS 2005-03-10

PRIOR PELING DATE: 1997-01-28

PRIOR APPLICATION NUMBER: 60/035,722

PRIOR APPLICATION NUMBER: 60/035,722

PRIOR FILING DATE: 1997-01-28

PRIOR FILING DATE: 1997-02-05

PRIOR FILING DATE: 1998-05-06

PRIOR PRILING DATE: 1998-05-06

PRIOR PRILING DATE: 1998-05-06

PRIOR PRILING DATE: 2000-08-30

PRIOR PRILING DATE: 2000-08-30

PRIOR FILING DATE: 2002-09-27

PRIOR PRILING DATE: 2003-08-30

PRIOR FILING DATE: 2003-08-30

PRIOR FILING DATE: 2003-08-37

PRIOR PRILING DATE: 2003-09-27

PRIOR FILING DATE: 2003-09-27

PRIOR FILING DATE: 2004-09-10

NUMBER: FILING DATE: 2004-09-10
                                                                                                                                     Query Match
9.6%; Score 77; DB 7
Best Local Similarity 26.5%; Pred. No. 1.6;
Matches 36; Conservative 7; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                       329 YTHÈE--ASTSCVCEKDYFRRESDPPT---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 5, Application US/11076187
Publication No. US20050244857A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               118 MLSIIFPQLPPTQLSG 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 373 -TSVFLEWIPPADTGG 387
     ; LENGTH: 1005
; TYPE: PAT
; ORGANISM: Rattus norvegicus
US-11-113-424-63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Homo sapiens
US-11-076-187-5
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Sequence 916, Application US/10821234

Publication No. US20050253114A1

GENERAL INFORMATION:
APPLICANT: Labat, Ivan
APPLICANT: Andarmani, Susan
TILLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
FILE REPERENCE: 821A

CURRENT APPLICATION NUMBER: US/10/821,234

CURRENT FILING DATE: 2004-04-07

PRIOR PILING DATE: 2003-04-07

NUMBER OF SEQ ID NOS: 1704

SEQ ID NOS: 1704

SEQ ID NO 916-05
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FILE REFERENCE: P3330R.C128
CURRENT APPLICATION NUMBER: US/10/131,826A
CURRENT APPLICATION NUMBER: US/10/131,826A
CURRENT FILING DATE: 1997-06-18
PRIOR PILING DATE: 1997-06-18
PRIOR PLILING DATE: 1997-06-18
PRIOR PLILING DATE: 1997-08-26
PRIOR PLILING DATE: 1997-08-26
PRIOR PLILING DATE: 1997-09-17
PRIOR PLILING DATE: 1997-09-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14 LGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQSTLWPHSQVAEERMAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          36; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8.7%; Score 70; DB 6; Length 3002; 22.1%; Pred. No. 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 8.8%; Score 71; DB 6; Length 164; Best Local Similarity 24.7%; Pred. No. 1.2; Matches 24; Conservative 7; Mismatches 30; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            67 LGAICYCDLFCN----RTVSDCCPDFWDFCLG---VPPPFPP--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74 DVOCGTSYPSTFLLWPHCLLSVSNMPCSSLPRVLCTC 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ----- NRCTC 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             110 RI-----YPVLGTYWDNC-----
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Homo Sapien
US-10-131-826A-314
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Matches 33; Conserva
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US-11-10Z-Z4U-BZ

Sequence B2, Application US/11102240

Sequence B2, Application US/11102240

Sequence B2, Application US/11102240

Sequence B2, Application Wo. USZ0050260647A1

GENERAL INFORMATION:

APPLICANT: Goddward, Audrey

APPLICANT: Goddward, Paul J.

APPLICANT: Wood, William I.

APPLICANT: Wood, William I.

FILE OF INVENTION: ESOPHAGEAL TUMOR

FILE OF INVENTION: ESOPHAGEAL TUMOR

FILE REPERENCE: P3230R1C106C

CURRENT FILING DATE: 2002-05-07

FRIOR APPLICATION NUMBER: 10/063667

FRIOR APPLICATION NUMBER: 60/170262

FRIOR APPLICATION NUMBER: 60/170262

FRIOR PILING DATE: 2000-08-24

FRIOR FILING DATE: 199-12-09

NUMBER OF SEQ ID NOS: 170

LENGTH. APPLICATION NUMBER: 60/170262

FRIOR FILING DATE: 199-12-09

NUMBER OF SEQ ID NOS: 170

LENGTH. APPLICATION NUMBER: 170

LENGTH. APPLICATION NUMBER: 60/170262
2199 GKCSSPKS-RNHSKQECCCALKGEGWGDPCELCPTEPDEAFRQICPYGSGIIVGPDDSAV 2257
                                                                                                                                                          2258 DMDECKEPDVCKHGQCIN---TDGSYRCECPFGYT-LAGNECVDTDECSVGN-PCGNGTC 2312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               50 TPNACPOSTLWPHSQVAEERMAGGDVQCGTSYPSTFLLWPHCL---LSVSNMPCSS--- 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MRSCPEEQYWAALL---GTCMFCKAICNHQS-------QRTCAASCGEFWDL 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      43 SPGDSVITPNACPQSTLWPHSQ------VAEERMAGGDVQCGTSYPSTFLLWPHC 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           152 LTTCPEPGCPAPLPLPDSCCOACKDEASEOSDEEDSVOSLHGVRHPQDPCSSDAGR--KR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       64; Indels 46; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 7; Length 451;
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; Sequence 2, Application US/10999782
; Sequence 2, Application No. US20050266524A1
; GENERAL INFORMATION:
; APPLICANT: BULLA, Lee A.;
; APPLICANT: BULLA, Lee A.
; TITLE OF INVENTION: BETA INTEGRIN GENE AND PROTEIN
; PILE REPERENCE: S24412001100
; CURRENT APPLICATION NUMBER: US/10/999,782
; CURRENT FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: US 60/527,072
; PRIOR FILING DATE: 2003-12-03
; NUMBER OF SEQ ID NOS: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 8.5%; Score 68; DB 7
Best Local Similarity 22.6%; Pred. No. 6;
Matches 38; Conservative 20; Mismatches
                                                                                                                                                                                                                                                                                                                           2313 KNVIGGFECTCEEGFEPGPMMTCEDINEC 2341
                                                                                                                                                                                                                                                           103 ---LPRVLCTC-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; ORGANISM: Homo Sapien
US-11-102-240-82
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US-11-126-126-16
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                                                                                                                                                                                                                                                          270 GVCMCGKCTCNPDRSGKYCEFDDKACDNLCSNHGICTLGSCQCDSGWSGNDCGCPTSNTD 329
                                                                                                                                                                                                                                                                                                                61 PHSQVAEBRMAG-GDVQCGTSYPSTFLLWPHCLLSVSNMPCSSLPRVLCTCCSRCLECML 119
                                                                                                                                                                                                                                                                                                                                                       ---KCQCAKVKGKNETYAGVFCDTCNDCQSKYC 378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78 CPPGTYIAHINGLSKCLOCOMCDPAMGLRASRNCSRTENAVCGCSPGHFCIVQDGDHCAA 137
                                                                                                                                                                                                                                15 GTCMFCKAICNHQ-----SQRTCAASCGEFWDLSPG----DSVITPN--ACPQSTLW 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 CPREQYWAAL--LGTCMFCKAI-----CNHQSQRTCAASCGEFWDLSPGDSVIT 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Novel Compositions and Methods for the Treatment of TITLE OF INVENTION: Immune Related Diseases FILE REFERENCE: P1996R1P1-US CURRENT APPLICATION NUMBER: US/10/987,663 CURRENT FILING DATE: 2004-11-12 PRIOR APPLICATION NUMBER: US 60/421,236 PRIOR FILING DATE: 2002-10-25 PRIOR PLING DATE: 2002-10-25 PRIOR APPLICATION NUMBER: US 10/371,341 NUMBER OF SEQ ID NOS: 10 NOS: 10
                                                                                                                                                                                        26; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15;
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                                                                                                                                               DB 6; Length 504;
                                                                                                                                                                                      65; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              51 PNACPOSTLWPHSOVABERMAGGDVQCGTSYPSTF 85
                                                                                                                                                                                      14; Mismatches
                                                                                                                                             8.3%; Score 67;
22.2%; Pred. No. 6
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 16, Application US/11126126
Publication No. US20050250696A1
GENERAL INFORMATION:
APPLICANT: Fisher F., Eric
APPLICANT: Edwards K., Carl
APPLICANT: Kieft L., Gary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Sequence 4, Application US/10987663; Publication No. US20050272118A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                      330 CYAQYSEEVCSGNGECVCG-
                                                                                                                                                                                                                                                                                                                                                                                                120 SIIPPOLPPTQLSGL 134
                                                                                                                                                                                                                                                                                                                                                                                                                                     379 KALEPNVECNYIOGL 393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLARK, HILARY
EATON, DANIEL L.
WRANIK, BERND
OUYANG, WENJUN
GONZALES, LINO
LOYET, KELLY M.
                                                                                                                                           Query Match
Best Local Similarity 22.23
Matches 30; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24; Conservative
                                                                              ; ORGANISM: Manduca sexta
US-10-999-782-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Homo sapiens
US-10-987-663-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 24; Conserva
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US-10-987-663-4
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                        TYPE: PRT
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134 C---RICAPLRKCRPGFGVARPGTETSDVVCKPCAPGTFSNTTSSTDICRPHQICNVVAI 190
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8.2%; Score 66; DB 7; Length 461;
Best Local Similarity 22.4%; Pred. No. 9.5;
Matches 30; Conservative 14; Mismatches 60; Indels
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Publication No. US20050255100A1

GENERAL INFORMATION:

APPLICANT: Ni, Jian

APPLICANT: Ni, Jian

APPLICANT: Reiner

APPLICANT: Reiner

TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5

FILE REFERENCE: 1488.1280004

CURRENT PILING DATE: 2005-07-18

FRIOR PELING DATE: 2005-07-18

PRIOR FILING DATE: 2002-07-02

SOFTWARE: PALENTING DATE: 2004-05-18

NUMBER OF SEQ ID NOS: 27

SOFTWARE: PALENTIN VEY: 2.1
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Job time : 13 secs
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TYPE: PRT
ORGANISM: Homo sapiens
                                           TYPE: PRT
ORGANISM: Homo sapiens
US-11-132-285-6
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LENGTH: 461
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US-08-810-572A-2

Sequence 2, Application US/08810572A

Patent No. 5569102

GENERAL INFORMATION:

APPLICANT: Bram, Richard J.

APPLICANT: von Bulow, Gotz

TITLE OF INVENTION: A LYMPHOCYTE SURFACE RECEPTOR THAT BINDS

TITLE OF INVENTION: THEREOF

TITLE OF INVENTION: THEREOF

NUMBER OF SEQUENCES: 11
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/cgn2_6/ptodata/1/iaa/H_COMB.pep:*
/cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
/cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
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(c) 1993 - 2005 Compugen Ltd.
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US-09-854-864-14

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US-09-782-857A-6

US-09-782-857A-6

US-09-854-864-15

US-09-854-864-15

US-09-854-864-15

US-09-854-864-16

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                                                                                                                                                                   OM protein
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Searched:
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                                                                                                                                                                                                                                   Run on:
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61 PHSQVAEERWAGGDVQCGTSYPSTFLLWPHCLLSVSNWPCSSLPRVLCTCCSRCLECMLS 120
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100.0%; Pred. No. 1.9e-72;
iive 0; Mismatches 0;
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-08-820-170A-34
                                                  US-09-523-323-59
US-09-286-529-2
US-07-686-529-2
US-08-429-988-6
US-08-431-333-6
US-08-431-333-6
US-09-813-1862-2
US-09-813-1862-2
US-09-813-62-2
US-09-813-62-2
US-09-824-647-2
US-09-824-647-2
US-09-824-647-2
US-09-824-647-2
US-09-824-647-2
US-09-824-647-2
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Best Local Similarity 100.
Matches 142; Conservative
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USE

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von Bulow, Gotz
TITLE OF INVENTION: A LYMPHOCYTE SURFACE RECEPTOR THAT BINDS
CAML, NUCLEIC ACIDS ENCODING THE SAME AND METHODS OF USE
THEREOF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MRSCPEEQYWAALLGTCMFCKAICNHOSORTCAASC-----GEFWDLSPGDSVITP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 293;
                                                                                                                                               ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             52 NACPOS-----TLWPHSQVAEERMAGGDVQ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/290,333
FILING DATE: 12-Apr-1999
CLASSIFICATION: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
RAGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1340-1-007 PCT
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 24.3%; Score 195; DB 2; Best Local Similarity 27.0%; Pred. No. 1.4e-11; Matches 62; Conservative 11; Mismatches 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Homo sapiens
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 2, Application US/09782857A
Patent No. 650042B
GENERAL INFORMATION:
APPLICANT: Bram, Richard J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: 201-487-5800
TELEPAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 293 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: procein HYPOTHETICAL: NO FRAGMENT TYPE: N-terminal ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
                                                     STATE: New Jersey
COUNTRY: USA
CITY: Hackensack
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
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TITLE OF INVENTION: A LYMPHOCYTE SURFACE RECEPTOR THAT BINDS
CAML, NUCLEIC ACIDS ENCODING THE SAME AND METHODS OF USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : | | : | 180 | 140 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 19
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CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esg.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Length 293;
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esg.
STREET: #11 Hackensack Ave, Continental Plaza, 4th
STREET: Floor
                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FO Compartible
OPERATURG SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/810,572A
FILING DATE: 28-FEB-1997
CLASSIFICATION: 536
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27.0%; Pred. No. 1.4e-11;
tive 11; Mismatches 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 536
ATTORNEY, AGENT INFORMATION:
NAME: Jacken EBG., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1340-1-007
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
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Patent No. 6316222
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Bram, Richard J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 27.0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 293 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STEANDEDNESS: Single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: N-termina
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Homo sapiens
US-08-810-572A-2
                                                                                                                                                                                                    CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ----- 77
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91 SICGOHPKOCAYFCENKLRSPVNLPPELR----RORSGEVENNSDNSGRYQGLEHRGSEA 146
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Sequence 4, Application US/09848295

Patent No. 6623941

GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Ruben, Steven M.

TITLE OF INVENTION: Human Tumor Necrosis Factor TR20 and Methods Based

TITLE OF INVENTION: Thereon

TITLE OF INVENTION: Thereon

FILE REFERENCE: PF527

CURRENT FILING DATE: 2001-05-04

PRIOR PAPLICATION NUMBER: 60/202,193

PRIOR PAPLICATION UMBER: 60/202,193

PRIOR FILING DATE: 2000-05-05

NUMBER OF SEQ ID NOS: 4

$ SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 4
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                                                                                                                                                                                                                                                                                                                                                                                                                          31 MRSCPEEGYWDPLLGTCMSCKTICNHOSORTCAAFCRSLSCRKEOGKFYDHLLRDCISCA 90
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24.3%; Score 195; DB 2;
Best Local Similarity 27.0%; Pred. No. 1:4e-11;
Matches 62; Conservative 11; Mismatches 51
                                                                                                                                                                                                                                                                                                     Query Match 24.3%; Score 195; DE Best Local Similarity 27.0%; Pred. No. 1.4e Matches 62; Conservative 11; Mismatches
              FILING DATE: 2000-10-23
APPLICATION NUMBER: 60/211,537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    52 NACPQS------
                                                                                                                                                                                                                                          ; ORGANISM: Homo sapiens
US-09-879-919-22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     147 SPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPRQSPA 206
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 --- CTCCSRCLECMLSIIFPQL-PPTQLSGLGP 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    207 KSSQDHAMEAGSPVSTSPEPVETCSFC-----FPECRAPTQESAVTP 248
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 24.3%; Score 195; DB 2; Length 293; Best Local Similarity 27.0%; Pred. No. 1.4e-11; Matches 62; Conservative 11; Mismatches 51; Indels 1
                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                              CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/782,857A
FILING DATE: 14-Feb-2001
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/810,572
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                           NAME: Jackson Esg., David A. REGISTRATION NUMBER: 26,742 REFERENCE/DOCKET NUMBER: 1340-1-007 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; ORGANISM: Homo sapiens
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-782-857A-2:
                                                                                                                                                                                                                                                                                                                                        TELEPHONE: 201-487-5800
TELEPAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 293 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: protein HYPOTHETICAL: NO FRAGMENT TYPE: N-terminal ORIGINAL SOURCE:
    COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-879-919-22
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APPLICANT: Bram, Richard J.

Von Bulow, Gotz
TITLE OF INVENTION: A LYMPHOCYTE SURFACE RECEPTOR THAT BINDS
CAML, NUCLEIC ACIDS ENCODING THE SAME AND METHODS OF USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MRSCPEEQYWAALLGTCMFCKAICNHOSORTCAASC-----GEFWDLSPGDSVITP
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ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOCTWARE: Patentin Ralease #1.0, Version #1.30
CURRENT APPLICATION DATE:
APPLICATION NUMBER: US/08/810,572A
FILING DATE: 28-FEB-1997
CLASSIFICATION: 58
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/POCKET NUMBER: 1340-1-007
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
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Pred. No. 1.3e-11;
4; Mismatches 15;
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ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esg., David A.
REFERENCE/DOCKET NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1340-1-007 PCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/290,333
FILING DATE: 12-Apr-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 07601
UTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 6, Application US/09290333
Patent No. 6316222
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 24.0%;
Best Local Similarity 56.9%;
Matches 37; Conservative '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 11
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STATE: New Jersey
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 166 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Floor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-810-572A-6
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US-09-290-333-6
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## Sequence 10. 6774106

## Patent No. 6774106

## GENERAL INFORMATION:

## APPLICANT: THEILL, LARS EXDE

## APPLICANT: TU GANG

## TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APPLICANT APPLICANTION: MELYS/AGP-3, AND TACI

## FILE REFERENCE: A-686B

## CURRENT APPLICATION NUMBER: US/09/854,864

## CURRENT PILING DATE: 2000-05-12

## PRIOR FILING DATE: 2000-05-12

## PRIOR FILING DATE: 2000-06-27

## NUMBER OF SEQ ID NOS: 31

## SOSTWARE PATENTING DATE: 2000-06-27

## NUMBER OF SEQ ID NOS: 31

## SOSTWARE PATENTING DATE: 2000-06-27

## SOSTWARE PATENTING DATE: 2000-06-27
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Sequence 6, Application US/08810572A

Patent No. S96910102

GENERAL INFORMATION:
APPLICANT: Bram, Richard J.
APPLICANT: Von Bulow, Gotz

TITLE OF INVENTION: A LYMPHOCYTE SURFACE RECEPTOR THAT BINDS

TITLE OF INVENTION: THEREOF

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:
ADD
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                 147 SPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPRQSPA 206
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                                                                                                                                                          207 KSSQDHAMEAGSPVSTSPEPVETCSFC-----FPECRAPTQESAVTP 248
                                                                                                     --CICCSRCLECMLSIIFPQL-PPTQLSGLGP 136
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        51; Indels 106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 2; Length 293;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
STREET: Floor
CITY: Hackensack
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24.3%; Score 195; DB 2; 27.0%; Pred. No. 1.4e-11; iive 11; Mismatches 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 27.04
Matches 62; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
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COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 8
US-08-810-572A-6
                                                                                                                                                                                                                                                                                                               RESULT 7
US-09-854-864-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-854-864-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 14
LENGTH: 293
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APPLICANT: THELLIA, LAKS ELDE
APPLICANT: YV, GANG
TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,
TITLE OF INVENTION: BLYS/AGP-3, AND TACI
FILE REFERENCE: A-666E
CURRENT APPLICATION NUMBER: US/09/854,864
CURRENT APPLICATION NUMBER: US 60/204,039
PRIOR PILING DATE: 2000-05-12
PRIOR PILING DATE: 2000-06-27
PRIOR APPLICATION NUMBER: US 60/214,591
PRIOR PILING DATE: 2000-06-27
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PATCHIN VERSION 3.1
SEQ ID NO S: 11
SEQ ID NO S: 11
SEQ ID NO S: 12
LENGTH: 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 18, Application US/09854864
Patent No. 6774106
GENERAL INFORMATION:
REPLICANT: THEILL, LARS EYDE
APPLICANT: THEILL, LARS EYDE
APPLICANT: YU, GANG
TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,
TITLE OF INVENTION: BLYS/AGP-3, AND TACI
FILE REFERENCE: A-686B
CURRENT APPLICATION NUMBER: US/09/854,864
CURRENT APPLICATION NUMBER: US 60/204,039
PRIOR APPLICATION NUMBER: US 60/214,591
                                                                                                                                                                                                                                                                                         21
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                                                                                                                                                                            Length 166;
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                                                                                                                                                                            DB 2;
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                                                                                                                                                                                                                                                                1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASC---
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                                                                                                                                                                      Score 192.5; DB 2
Pred. No. 1.3e-11;
4; Mismatches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 192.5; DB 2
Pred. No. 1.3e-11;
4; Mismatches 15
                    HYPOTHETICAL: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
CREATER ORIGINAL SOURCE:
CREATER HOMO SAPIENS
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-782-857A-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 15, Application US/09854864
Patent No. 6774106
GENERAL INFORMATION:
APPLICANT: THEILL, LARS EYDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24.0%;
                                                                                                                                                                            Query Match 24.0%;
Best Local Similarity 56.9%;
Matches 37; Conservative
    MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 24.09
Best Local Similarity 56.9
Matches 37; Conservative
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US-09-854-864-15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A LYMPHOCYTE SURFACE RECEPTOR THAT BINDS CAML, NUCLEIC ACIDS ENCODING THE SAME AND METHODS OF USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MRSCPEEGYWAALLGTCMFCKAICNHQSQRTCAASC-----GEFWDLSPGDSVITP 51
                                                                                                                                                                                                                                                                                                                                                       DB 2; Length 166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC Compatible
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
RILING DATE: 14-Feb-2001
CLASSIFICATION: <unbed>CUNKNOWN>
                                                                                                                                                                                                                                                                                                                                                     24.0%; Score 192.5; DB 2; 56.9%; Pred. No. 1.3e-11; tive 4; Mismatches 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: JGcKSON ESQ., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1340-1-007
TELEFAX: 201-487-5800
TELEFAX: 201-487-1684

INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
ERNGTH: 166 amino acids
TYPE: amino acid
STRANDEDNESS: single
TYPE: peptide
HYPOTHEITAL: NO
FRAGMENT TYPE: N-terminal
ORGANISM: HOMO SADIENS
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-290-333-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/810,572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Bram, Richard J.
von Bulow, Gotz
TITLE OF INVENTION: A LYMPHOCYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 6, Application US/09782857A Patent No. 6500428 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE: Floppy disk
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TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ELEFAX: 201-343-1684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 07601
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                       Query Match 24.0
Best Local Similarity 56.9
Matches 37; Conservative
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US-09-782-857A-6
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Indels

Length 59;

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73 CPPRHYTOFW-NYLERCRYCNVLCGEREEEARACHATHNRACRCRTGFFAHAGFCLEHAS 131
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                                                                                                                                                                                                                                                                                                                                                                               1 CPEEQYWDPLLGTCMSCKTICNHQSQRTCAAFCRSLSCRKEQGKFYD 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-286-529-17

Sequence 17, Application US/09286529

Fatent No. 6297367

GENERAL INFORMATION:

TITLE OF INVENTION:

FILE REFERENCE: 1408.003/200130.439C1

CURRENT APPLICATION NUMBER: US/09/286,529

CURRENT FILING DATE: 1999-04-05

NUMBER OF SEQ ID NOS: 25

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 17

LENGTH: 299

TYPE: PRT

CORGANISM: Homo sapien

US-09-286-529-17
                                                                                                                                                                                                     Score 172.5; DB 2;
Pred. No. 4e-10;
2; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  46;
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11.9%; Score 95.5; DE
Best Local Similarity 25.4%; Pred. No. 0.11;
Matches 36; Conservative 9; Mismatches
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Job time : 47 secs
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                                                                                                                                                                                                         Query Match 21.5%;
Best Local Similarity 66.0%;
Matches 31; Conservative
                               ; LENGTH: 59
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-854-864-20
      SEQ ID NO 20
                                                                                                                                                                                                                                               Best Loca
Matches
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### Sequence 20, Application US/09854864

### SPECENT NO. 6774108:

### APPLICANT: THEILL, LARS EYDE

### APPLICANT: THEILL, LARS EYDE

### TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,

### TITLE OF INVENTION: BLXS/AGP-3, AND TACI

### TITLE OF INVENTION: BLXS/AGP-3, AND TACI

### CURRENT PILING DATE: 2001-09-11

### PRIOR PILING DATE: 2000-05-12

### PRIOR PILING DATE: 2000-05-12

### PRIOR PILING DATE: 2000-06-27

### PRIOR FILING DATE: 2000-06-27

### WUMBER OF SEQ ID NOS: 31

### APPLICANTON NUMBER: 43

### APPLICANTON NUMBER: 44

### APPLICANTON NUMBER: 45

### APP
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; Sequence 16, Application US/09854864
; Sequence 16, Application US/09854864
; Patent No. 6774106
; GENERAL INFORMATION:
APPLICANT: THEILL, LARS EYDE
; APPLICANT: TY GANG
; TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,
; TITLE OF INVENTION: BLYS/AGP-3, AND TACI
; FILE REFERENCE: A-6868
; CURRENT FILING DATE: 2001-09-11
; PRIOR APPLICATION NUMBER: US 60/204,039
; PRIOR FILING DATE: 2000-06-12
; PRIOR FILING DATE: 2000-06-27
; NUMBER OF SEQ ID NOS: 31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASC-----GEFWDLSPGDSVITP 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CPEEQYWDPLLGTCMSCKTICNHQSQRTCAAFCCRKEQGKFYDHLLRDCISCASICGQ 58
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                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                          Score 192.5; DB 2;
Pred. No. 3.5e-11;
4; Mismatches 15;
PRIOR FILING DATE: 2000-06-27
NUMBER OF SEQ ID NOS: 31
SOFTWARE: Patentin version 3.1
SEQ ID NO 18
LENGTH: 397
                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 56.9%;
Matches 37; Conservative
                                                                                                                                                                             TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
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SICGQ 95
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	Description	Adf77377 Human tum	Adj92512 Human TR2	Aae29295 Human gen	Adz67771 Human tum	9 Нұтап	Aau09900 Human AGP	Aae09244 Human TAC	3 Amino	Human	Aaw75783 Human lym	Aab36312 Human neu	Aay94000 A transme	Aae09240 Human TAC	Aay71914 Human tum	Aao14130 Human tra	Abb81488 Human TAC	Aau99512 Human TAC	Aae28962 Human TAC	Aau75408 Tumour ne	Aae15493 Human tra	6 Human	Aae35211 Human TAC	Abp60551 Human tum	Abp97716 Amino aci
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SUMMARIES	13	ADE77377	ADJ92512	AAE29295	ADZ67771	AAU10949	AAU09900	AAE09244	ABP97723	ADW03442	AAW75783	AAB36312	AAY94000	AAE09240	AAY71914	AA014130	ABB81488	AAU99512	AAE28962	AAU75408	AAE15493	ABG71496	AAE35211	ABP60551	ABP97716
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New TR20 nucleic acid molecules, useful for treating diseases associated with increased cell survival, upregulated cell proliferation, or inhibition of apoptosis, e.g. cancer, autoimmune diseases, viral infections, inflammation. WPI; 2003-895467/82. N-PSDB; ADF77376 

Claim 1; SEQ ID NO 2; 102pp; English.

The invention relates to an isolated nucleic acid molecule consisting of a sequence that is at least 90% identical to a sequence encoding Human cumour necrosis factor receptor (TR20) polypeptide (appearing as ADF77377) or its fragments, complement, and optionally a heterologous nucleic acid sequence that is preferentially expressed in mature B cells. Also included are a method of making a recombinant vector by inserting the nucleic acid molecule into a vector, a recombinant vector produced by the method, a method of making a recombinant host cell by introducing the recombinant vector into a cell, a recombinant host cell by introducing the recombinant nethod of producing a polypeptide by culturing the recombinant host cell under conditions where the polypeptide is expressed and recovering the polypeptide. The nucleic acid molecules are useful for treating diseases associated with increased cell survival, cureful ated cell proliferation, or inhibition of apoptosis, e.g. cancer, autoimmune diseases, viral infections, inflammation, graft-versus-host diseases, acute graft rejection, chronic graft rejection, AIDS, neurodegenerative diseases, when the spudromes, ischaemic injury, continduced liver disease, septic shock, cachexia, and anorexia. The present sequence represents human TR20.

Sequence 142 AA;

9 1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQSTLW 1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQSTLW Gaps ö 100.0%; Score 803; DB 7; Length 142; 100.0%; Pred. No. 3e-69; tive 0; Mismatches 0; Indels IIFPQLPPTQLSGLGPNIGGLL 142 iirPolPPTOLSGLGPNIGGLL 142 Best Local Similarity 100. Matches 142; Conservative 61 61 121 121 Query Match ઠે 엄 셤 ò ઠે

RESULT 2 ADJ92512

ADJ92512 standard; protein; 142 AA. ADJ92512;

(first entry) 03-JUN-2004

Human TR20.

human; TR20; immunodeficiency; autoimmune disease;
severe combined immunodeficiency; SCID-X linked; SCID-autosomal;
adenosine deaminase deficiency; ADA deficiency.
X-linked agammaglobulinaemia; XLa; Brutcon's disease;
congenital agammaglobulinaemia; X-linked infantile agammaglobulinaemia;
acquired agammaglobulinaemia; Alinked infantile agammaglobulinaemia;
late-onset agammaglobulinaemia; dysgammaglobulinaemia;
hypogammaglobulinaemia; dysgammaglobulinaemia of infancy;
unspecified hypogammaglobulinaemia; yennsient hypogammaglobulinaemia;
common variable immunodeficiency; CVID; Wiskott-Aldrich Syndrome; WAS;
selective IgA deficiency; B cell lymphoproliferative disorder; BLPD;
recessive agammaglobulinaemia; reticular dysgenesis;
neonatal neutropenia; severe congenital leukopenia; 

KW thymic alymphoplasia-aplasia, ataxia-telanglectasia,

KW abort limbed dwarfism, X-linked jymphoproliferative syndrome; XLP;

KW purine nucleoside phosphorylase, PND deficiency; MHC Class II deficiency;

Bare Lymphocyte Syndrome; autoimmune haemolytic anaemia;

KW autoimmune neonatal thrombocytopenia;

Aldiopathic thrombocytopenia; autoimmunocytopenia;

Autoimmune neutropenia; haemolytic anaemia; antiphospholipid syndrome;

KW autoimmune neutropenia; haemolytic anaemia; antiphospholipid syndrome;

KW autoimmune neutropenia; haemolytic anaemia; antiphospholipid syndrome;

KW autoimmune neutropenia; haemolytic syndrome;

KW relapsing polychondritis; rheumatic heart disease; glomerulonephritis;

KW Purpura; Stiff-Man. Syndrome; Autoimmune Pulmonary Inflammation;

KW Purpura; Stiff-Man. Syndrome; Autoimmune thyroiditis; hypothyroidism;

KW Purpura; Stiff-Man. Syndrome; Autoimmune thyroiditis; polychyroidism;

KW receptor autoimmune thrombocytopenic purpura;

KW receptor autoimmune thrombocytopenic purpura;

KW polymyositis; dermatomyositis; pernicious anaemia; infertility;

KW polymyositis; dermatomyositis; pernicious anaemia; infertility;

KW vitiligo; vasculitis; cardiotomy syndrome; uricaria; atopic dermatitis;

KW vitiligo; vasculitis; asthma, inflammatory myopathy, inflammatory skin disease; psoriasis; sclerosls, inflammatory bowel disease, crohn's disease; ulcerative colitis; respiratory distress syndrome; adult respiratory distress syndrome; ARDS; meningitis; encephalitis; colitis, allergy; eczema

Homo sapiens

US2004048296-A1.

11-MAR-2004

LS-JUL-2003; 2003US-00618797.

05-MAY-2000; 2000US-0202193P.

(HUMA-) HUMAN GENOME SCI INC.

Ruben SM, Baker KP,

WPI; 2004-226194/21. N-PSDB; ADJ92511.

New isolated human tumor necrosis factor TR20 polypeptide and nucleic acid molecule, useful for diagnosing or treating conditions with aberrant archesing of the TR20 polypeptide, such as immunodeficiency and autoimmune diseases.

Disclosure; SEQ ID NO 2; 114pp; English.

The invention relates to an isolated nucleic acid. The nucleic acid and its protein are useful for the diagnosis and/or treatment of immunodeficiency and/or autoimmune diseases or conditions associated with aberrant expression or activity of the TR20 polypeptide, such as severe combined immunodeficiency (SCID)-X linked, SCID-autosomal, adenosine deaminased editiciency (ADA deficiency), X-linked agammaglobulinaemia (X-linked infantile agammaglobulinaemia, x-linked cinfantile agammaglobulinaemia, phyogammaglobulinaemia, adult onset agammaglobulinaemia, inter-onset agammaglobulinaemia, adult onset dagammaglobulinaemia, inter-onset agammaglobulinaemia, adult onset bygogammaglobulinaemia, common variable immunodeficiency (CVID), Wiskottagammaglobulinaemia, common variable immunodeficiency with hyper IGM, selective IGA deficiency, IGG subclass deficiency with hyper IGM, selective IGA deficiency with hyper IGM, selective IGA deficiency with charmal of elevated IGA, immunodeficiency with thymona, IG heavy chain deletions, kappa chain deficiency, recessive disorder (BLDD), selective IGM immunodeficiency, recessive cagammaglobulinaemia (Swiss type), reticular dysgenesis, neonatal neutropenia, severe congenital leukopenia, thymic alymphoplasia-aplasia or dysplasia with immunodeficiency, ataxia-telangiectusia, short limbed dwarfism, X-linked lymphoproliferative syndrome (XLE), Nezelof syndrome-

cc combined immunodeficiency with Igs, purine nucleoside phosphorylase

deficiency (PMP), MRC Class II deficiency (Bare Lymphocyte Syndrome),

cc deficiency (PMP), MRC Class II deficiency (Bare Lymphocyte Syndrome),

cc deficiency (PMP), MRC Class II deficiency (Bare Lymphocyte Syndrome),

cc selected from the group consisting of autoimmune disease is a member

cc (including crycalobinamenia or Coombs positive anaemia), autoimmune

cc autoimmunocytopenia, atdomathis a haemolytic anaemia,

autoimmunocytopenia, autoimmune neutropenia, haemolytic anaemia,

autoimmunocytopenia, autoimmune neutropenia, haemolytic anaemia,

autoimmun chycopenia, sentoimmune neutropenia, haemolytic anaemia,

autoimmune chycopenia, sentoimmune to produce deractis polychondritis, reumatic heart

cc cises autoimmune thycofiditis, Polyendocrinopathies, Purpura (e.g. Henloch

cc disease, glomeralo Guilain-Barre Syndrome, Syndrome, Stucoimmune

blumonary Inflammation, Guilain-Barre Syndrome, Stucoimmune thycofiditis, hypothycoidism (i.e. Hashimoto's a

cc eye, autoimmune thycofiditis, hypothycoidism (i.e. Hashimoto's a

clabetes mellitus, juvenile onset diabetes, and autoimmune inflammatory

cc cyc, autoimmune thycofiditis, hypothycoidism (i.e. Hashimoto's a

chycoidisis, systemic lupus erythematosus, Goodpasture's syndrome,

crycial arthritis, guten-sensitive enteropathy, dense deposit

crycial arthritis, guten-sensitive enteropathy, dense deposit

crycial arthritis, guten-sensitive enteropathy, dense deposit

crycians of alsease), polymyositis (dermatomyositis, pernicious anaemia

cravis, and inaulin resistence, autoimmune thrombocytopenic purporial and other

clisense disease), polymyositis (dermatomyositis, pernicious anaemia

cravis, and inaulious pemphigoid, Sjogren's syndrome, diabetes mellitus,

clisense disease), polymyositis (dermatomyositis, pernicious anaemia

criciania disease), polymyositis (dermatomyositis, pernicious anaemia

cc dhronic active hepatitis, primary pliary cirrobale and other

cc disorders such as inflammatory b sarcoidosis, granulomatosis and diseases involving leukocyte diapedesis, central nervous system (CNS) inflammatory disorder, multiple organ injury syndrome, antigen-antibody complex mediated diseases, anti-glomerular basement membrane disease, lambert-Eaton mysathenia syndrome, Behcet disease, giant cell arteritis, immune complex nephritis, IgA nephropathy, IgM polyneuropathies or autoimmune thrombocytopenia. The present sequence represents the amino acid sequence of human TR20. 

Sequence 142 AA;

PHSQVAEERMAGGDVQCGTSYPSTFLLWPHCLLSVSNMPCSSLPRVLCTCCSRCLECMLS 120 120 9 9 1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVIIPNACPQSTLW 1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVITPNACPOSTLW Gaps ö 100.0%; Score 803; DB 8; Length 142; 100.0%; Pred. No. 3e-69; ive 0; Mismatches 0; Indels 121 IIFPQLPPTQLSGLGPNIGGLL 142 Best Local Similarity 100. Matches 142; Conservative 121 61 61 Query Match 셤 용 δ 셤 ਨੇ ð

AAE29295 standard; protein; 154 AA AAE29295; AAE29295 TD AAE2 XX AC AAE2 XX DT 27-J XX DE Huma RESULT 3

Human gene 6 encoded protein HPMKI40, SEQ ID NO:22 (first entry) 27-JAN-2003

human immunodeficiency virtus; arthritis; hyperproliferatist disages acquired immunodeficiency virtus; arthritis; hyperproliferative disease; acquired immunodeficiency syndrome; inflammation; asthma; myopathy; allegy; cancer; cardiac oedema; duodenal ulcer; pacifacis; sepsis; neuromuscular system disorder; multiple myeloma; pulmonary disorder; cardiovascular disorder; rhabdomyosarcoma; gastrointestinal disorder; multiple aclarosis; immuno-mediated thrombocytopaenia; myocarditis; lelomyosarcoma; autoimmune disorder; crohn's disease; gene therapy; hyperaemia; AIDS; infection.

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Homo sapiens

/label= Unknown /note= "Encoded by TYC" Misc-difference 151 /label= Unknown /note= "Encoded by KAC" YCT" Location/Qualifiers à note= "Encoded by /label= Unknown /note= "Encoded label= Unknown Misc-difference Misc-difference 

WO200272763-A2

08-MAR-2002; 2002WO-US006990 19-SEP-2002

09-MAR-2001; 2001US-0274214P.

(HUMA-) HUMAN GENOME SCI INC.

Ni J, Ruben SM; Shi Y,

WPI; 2002-759842/82. N-PSDB; AAD46954

ö ... process encoded by genes contained in cDNA clones (e.g. HAPQL38 c HHFOS77), useful for preventing, treating, ameliorating or diagnosing e.g. AIDS, sepsis, brain cancer, Crohn's disease or myocardial infarction.

Claim 11; Page 420-421; 429pp; English.

AAD46949-AAD46954 represent cDNAs corresponding to novel human protein genes, and AAB29290-AAB22295 represent the proteins they encode. AAD46955 AAD26951 represent novel human protein fragments. Sequences of the invention are useful for preventing, treating or ameliorating medical conditions are wound healing. These conditions include diseases or disorders of the immune system (e.g. HIV infection, autoimmune disorders, arthritis, asthma, AIDS, sepsis, psoriasis or inflammation) or neuromuscular system (e.g. multiple sclerosis, myocarditis, or myopathies), disorders associated with For receptor binding by antibody (e.g. immune-mediated thrombocytopaenia, inflammatory responses or allergic responses), thyperporliferative diseases (e.g. multiple myeloma, rhabdomyosarcoma, lung cancer, brain cancer or leiomyosarcoma, rhabdomyosarcoma, lung cancer, brain cancer or leiomyosarcoma, pulmonary disorders. (e.g. Crohn's disease or duodenal ulcers), pulmoualy account infections or cardiovascular disorders (e.g. hyperaemia, myocardial infarction or cardiac oedema). The invention is useful in gene therapy The present sequence represents human protein of the invention

Sequence 154 AA;

Gaps IndelB 86.9%; Score 697.5; DB 5; larity 92.7%; Pred. No. 4.7e-59; Conservative 0; Mismatches 3; Best Local Similarity Matches 127, Conserv Query Match

2

---GEFWDLSPGDSVITP

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31 MRSCPERGYMDPLLGTCMSCKTICNHQSQRTCAAFCRSLSCRKEQGKFYDHLLRDCISCA 90
   MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASC----
                                                                                                               52 NACPQS-----
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                                                                                                                  PHSQVAEERMAGGDVQCGTSYPSTFLLWPHCLLSVSNMPCSSLPRVLCTCCSRCLECMLS 120
                                                                                                                                                   PHSQVAEERWAGGDVQCGTSYPSTFLLWPHCLLSVSNMPXSSLPRVLCTCCSRCLECMLS 120
   9
                                                         9
                                 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQSTLW
   MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQSTLW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New tumor necrosis factor receptor (TNFR) polypeptides, useful as detecting ligands, and for modulating tumor growth, metastasis and immunity, such as separating resting from stimulated immune cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tumor necrosis factor receptor; TACI; cancer; neoplasm; diagnosis;
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llarity 27.1%; Pred. No. 7.8e-11;
Conservative 10; Mismatches 52;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human tumor necrosis factor receptor TACI.
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/note= "Cys-rich domain"
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                                                                                                                                                                                                                                                                                                                                                                                                                                       ADZ67771 standard; protein; 292
                                                                                                                                                                                                                                 IIFPOLPPTOLSGLGPN 137
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The invention relates to a composition (I) comprising AGP-3 receptor (tumour necrosis factor ligand family member) related protein (II) activated or a vehicle protein. (I) is useful for medulating AGP-3-related activity in mesenteric lymph and the set of memmal. (II) is useful in assays to identify cells and tissues that express AGP-3R or proteins related to AGP-3R-related protein and for identifying compounds (agonists or antagonists) that interact with AGP-3R proteins. (II) is also useful for identifying intracellular proteins that interact with the respective cytoplasmic domains by yeast two-hybrid screening process. (II) is involved in B cell growth, survival and activation particularly in lymph node, spleen, and Peyer's patches. AGP-3R agonists and antagonists identified using (II) are used for modulating B cell response and are used to treat diseases characterised by inflammatory processes or
                                               91 SIĊGÓHPKQCAYFCENKIRSPVNLPPELR----RQRSGEVENNSDNSGRYQGLEHRGSEA 146
                                                                                           -----CGTSYPSTFLLWPHCLLSVSNMPCSSLPRVL----- 107
                                                                                                                                        147 SPALPGLKLSADQVALVYSTLGLČLCAVLCCFLVAVAČFLKKRGDPCSCQPRSRPRQSPA 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; AGP-3; antiinflammatory; antiarthritic; immunosuppressive; dermatological; neuroprotective; nootropic; immunomodulator; metabolic; antidiabetic; analgesic; nephrotropic; osteopathic; cytostatic; fever; antiparkinsonian; antipsoriatic; vasotropic; antibacterial; asthma; AGP-3 receptor; tumour necroals factor ligand family; AGP-3 receptor; mesenteric lymph node; AGP-3R; inflammatory disease; immune disorder; rheumatoid arthritis; graft-versus-host disease; crohn's disease; pancreatitis; amyotrophic lateral sclerosis; ALS; Alzheimer's disease; disabetes; glomerulonephritis; inflammatory bowel disease; lschaemia; multiple sclerosis; Parkinson's disease; transgenic animal.
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-----TLWPHSQVAEERMAGGDVQ-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human AGP-3 receptor extracellular domain.
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9

Gaps

Indels 105;

WPI; 2002-049441/06. N-PSDB; AAS18558.

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deregulated immune response such as rheumatoid arthritis, graft-versushost disease, Crohn's disease, lupus, etc. (II) is also useful in the production of hybridoma cells which are derived from B cells, which involves treating the hybridoma cells with (II). (II) is useful in the treatment of inflammatory conditions of joints, e.g., rheumatoid arthritis, osteoarthritis, e.c. (II), its agointsts or antagonists are useful for treating acute pancreatitis, amportophic lateral sclerosis (ALS), Alzheimer's disease, asthma, atherosclerosis, cachexia/anorexia, cischaemic injury including cerebral ischaemia, multiple myeloma, multiple sclerosis, osteoporosis, Parkinson's disease, pain, reperfusion injury, septic shock, etc. The mucleic acids are also useful for developing transgenic animals expressing (II), which are useful for producing the polypeptides and for the study of in vivo biological activity. The present sequence represents the amino acid sequence of human AGP-3
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The invention relates to a composition (I) comprising AGP-3 receptor (tumour necrosis factor ligand family member) related protein (II) actached to a vehicle protein. (I) is useful in assays to identify cells and tissues that express AGP-3R or proteins catached to AGP-3R-related protein and for identifying compounds (agonists or antagonists) that interact with AGP-3R proteins. (II) is also useful in correct to antagonists or antagonists that interact with AGP-3R proteins. (II) is also useful correct or identifying intracellular proteins that interact with the respective cytoplasmic domains by yeast two-hybrid screening process. (II) is also useful in lymph and peyer's patches. AGP-3R agonists and antagonists involved in B cell growth, survival and activation particularly in lymph conde, spleen, and Peyer's patches. AGP-3R agonists and antagonists of involved in B cell growth, survival and activation particularly in lymph conde, spleen, and fasease, and are activated and are used to treat diseases characterised by inflammatory processes or deregulated immune response such as rheumatoid arthritis, graft-versus-conduction of hybridoma cells which are derived from B cells, which involves treating the hybridoma cells with (II). (II) is also useful in the production of hybridoma cells with (II). (II) is useful in the creating acute pancreatitis, amyotrophic lateral sclerosis (ALS). Alzheimer's disease, asthma, atherosclerosis, cachexidanorexia, diabetes, fever, glomerulonephritis, inflammatory bowel disease, cachexia, one production injury, septic shock, etc. The nucleic acids are also useful for developing the content of the study of in vivo biological activity. The
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                                                                                                                   Composition, useful for identifying modulator of receptor for treating asthma and glomerulonephritis, comprises AGP-3 (tumor necrosis factor ligand family member) receptor and encoding nucleic acids.
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24.7%; Score 198; DB 5; Length 293;
Best Local Similarity 27.0%; Pred. No. 1.1e-10;
Matches 62; Conservative 12; Mismatches 50; Indels 10
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Amino acid sequence of an alternatively spliced human TACI receptor.
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                                                                                                                                                                                                                                  Dixit V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADW03442;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        91 SICGQHPKQCAYFCENKLRSPVNLPPELR----RQRSGEVENNSDNSGRYQGLEHRGSEA 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         147 SPALPGLKLSADQVALVYSTLGLĆLCAVLCCFLVAVAČFLKKRGDPĆSCQPRSRPRQSPA 206
                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to methods of using one or more agonists or natagonists to modulate the activity of the members of TNF (tumour necrosis factor) especially TALL-1, APRIL and TNF receptor (TNFR) e.g. TACI or BCWA. The method is useful for treating pathological conditions or diseases associated with increased TALL-1 and APRIL expression or between APRIL and APRIL antagonists are used to block the interaction between APRIL and TALL-1 with TACI or BCWA. They are useful for treating a mammal suffering from cancer such as leukaemia, lymphoma, myeloma, actories of lung and colon and autoimmune diseases e.g. rheumatoid arthritis, multiple sclerosis, psoriatasis and lupus erythematosus. The present sequence is human TACI splice variant protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21
             Human, TNF, tumour necrosis factor; TALL-1; APRIL; TNF receptor; TNFR;
TACI; BCMA; therapy; cancer; leukaemia; myeloma; lymphoma;
autoimmune disease; rheumatoid arthritis; multiple sclerosis; psoriasis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MRSCPEEOYWAALLGTCMFCKAICNHOSORTCAASC-----GEFWDLSPGDSVITP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGTSYPSTFLLWPHCLLSVSNMPCSSLPRVL-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                52 NACPOS-----TLWPHSQVAEERMAGGDVQ---------
                                                                                                                                                                                                                                  Pitti RM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                 Inhibiting or neutralizing TALL-1 or APRIL polypeptide biological activity, for treating autoimmune disorders and cancer, comprises exposing the cells to TALL-1 or APRIL polypeptide agonists or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  207 KSSQDHAMEAGSPVSTSPEPVETCSFC-----FPECRAPTQESAVTP 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ------PPIQLSGLGP 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    51; Indels 106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Score 195; DB 4; Length 265;
; Pred. No. 1.9e-10;
11; Mismatches 51; Indels 1
                                                                                                                                                                                                                                   Marsters SA,
                                                                                                                                                                                                                                  Kim KJ,
                                                                                                                                                                                                                                   Grewal I,
                                                                                                                                                                                                                                                                                                                                                                  Example 1; Fig 6; 160pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24.3%;
27.0%;
                                                                                                                                          28-NOV-2000; 2000WO-US032378
                                                                                                                                                                   16-FEB-2000; 2000US-0182938P.
22-AUG-2000; 2000US-0226986P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    62; Conservative
                                                                                                                                                                                                                                   Ashkenazi AJ, Dodge KH,
                                                                                                                                                                                                          (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                         WPI; 2001-541628/60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 265 AA;
                                                                                          WO200160397-A1
                                                                Homo sapiens
                                                                                                                  23-AUG-2001
                                                                                                                                                                                                                                                                                                                                           antagonists
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ABP97723
ID ABP9
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ABP97723 standard; protein; 266 AA.

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(first entry)

28-MAY-2003

ABP97723

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       147 SPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPROSPA 206
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        92
Human, TACI, BR3, receptor; tumour necrosis factor ligand; TNF ligand;
TALL-1; April; systemic lupus erythematosus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          91 SICCOHPKOCAYFCENKLRSPVNLPPELR----RORSGEVENNSDNSGRYQGLEHRGSEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -----CGTSYPSTFLLWPHCLLSVSNMPCSSLPRVL----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASC-----GEFWDLSPGDSVITP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31 MRSCPEROYWDPILGTCMSCKTICNHOSORTCAAFCRSLSCRKEOGKFYDHLLRDCISCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New nucleic acid encoding a TACIs or BR3 polypeptide, useful for preparing a composition for treating systemic lupus erythematosus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          52 NACPOS------TLWPHSQVAEERMAGGDVQ--------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  51; Indels 106;
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------FPECRAPTQESAVTP 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ------PPTQLSGLGP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 266;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ch 24.3%; Score 195; DB 6; 1 Similarity 27.0%; Pred. No. 1.9e-10; 62; Conservative 11; Mismatches 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human TACI protein amino acid sequence #3.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Fig 8; 153pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ridgway J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADW03442 standard; protein; 266
                                                                                                                                                                                                                                                                                                             03-AUG-2001; 2001US-0310114P
30-APR-2002; 2002US-0377171P
                                                                                                                                                                                                                                                        24-JUL-2002; 2002WO-US023487
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                                                                                                                                                                                                                                                                                                                                                                                                   (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Grewal I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
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Best Local Similarity
Matches 62; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 266 AA;
                                                                                                                                           WO2003014294-A2.
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Human lymphocyte Burface receptor TACI.

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The invention comprises a method of depleting B cells from a mixed population of cells, the method involves contacting the mixed population of cells with BLyS antagonist (e.g. an immunoadhesin) and a CD20 binding antibody (e.g. hu2H7.v16). The method of the invention is useful for treating B cell malignancies and autoimmune disorders, such as: non-Hodgkin's lymphocytic leukemia, Hairy cell leukemia, rheumatoit systemic lupus erythematosus, Wegener's disease, inflammatory bowel disease, inflammatory bowel disease, psorthasis, igh nephropathy, mysathenia gravis, vaschmia, sathma, psorthasis, igh nephropathy, mysathenia gravis, vasculitis, diabetes and glomerulonephritis. The present amino acid sequence represents a human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -----CGTSYPSTFLLWPHCLLSVSNMPCSSLPRVL----- 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SPALPGLKLSADOVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCOPRSRPRQSPA 206
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MRSCPEEQYWAALLGTCMFCKAICNHQSQRTCAASC-----GEFWDLSPGDSVITP
                                                                                                                                                                                                                                                                                                                                                                                                        Depleting B cells from a mixed population of cells by contacting the cells with a BLyS antagonist and a CD20 binding antibody, useful for treating B cell malignancies and autoimmune disorders.
idiopathic thrombocytopenic purpura; hemostatic; multiple sclerosis; asthma; antiasthmatic; psoriasis; antima; antiasthmatic; gravias; muscular-gen;; neuroprotective; vasculitis; diabetes; antidiabetic; glomerulonephritis; nephrotropic; TACI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KSSQDHAMEAGSPVSTSPEPVETCSFC-----FPECRAPTQESAVTP 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .------CTCCSRCLECMLSIIPPQL-PPTQLSGLGP 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         51; Indels 106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24.3%; Score 195; DB 9; Length 266; 27.0%; Pred. No. 1.9e-10; ive 11; Mismatches 51; Indels 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               52 NACPOS-----TLWPHSQVAEERMAGGDVQ----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Fig 8; 114pp; English.
                                                                                                                                                                                                                            05-JUN-2003; 2003US-0476414P.
05-JUN-2003; 2003US-047648IP.
06-JUN-2003; 2003US-0476531P.
                                                                                                                                                                                            04-JUN-2004; 2004WO-US017693
                                                                                                                                                                                                                                                                                                                                     Martin F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                                                                                  (GETH ) GENENTECH INC.
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                                                                                                                                                                                                                                                                                                                                     Gong Q,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 266 AA;
                                                                                                                        WO2005000351-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-JAN-1999
                                                                                                                                                         06-JAN-2005
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Best Local S
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                                                                                                                                                                                                                                                                                                                                     Chan A,
                                                                                        Homo
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This is the amino acid sequence of novel human transmembrane activator and CAML-interactor (TACI) protein, a lymphocyte receptor protein that is involved in the calcium activation pathway. TACI is normally present in B -lymphocytes, and to a much lesser extent in immature T-lymphocytes, and therefore be targetted to specifically regulate B cell responses without affecting T cell activity. TACI cDNA (seeVS7328) was isolated from a B-lymphocyte cDNA library using a yeast two-hybrid assay. Also claimed are the C-terminal (see AAMTS784) and N-terminal (see AAMTS785) fragments of TACI, recombinant DNA constructs, unicellular hosts, and antibodies to TACI recombinant DNA constructs, unicellular hosts, and cantibodies to TACI protein. Methods are claimed for identifying immunosuppressive drugs that selectively block the action of B lymphocytes without affecting mature T lymphocytes. TACI can be activated to increase immune system activity, e.g. for treating infections or cancers. It can be blocked to provide immunosuppression, e.g. for treating autoimmune and inflammatory conditions such as immune complex. induced vasculitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   glomerulonephritis, haemolytic anaemia, myasthenia gravis, type II collagen-induced arthritis, experimental allergic and hyperacute xenograft rejection, rheumatoid arthritis, systemic lupus erythematosus,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated transmembrane activator protein - used to develop products for treating e.g. infections, cancers, autoimmune and inflammatory conditions, transplant rejection or graft-versus-host disease.
                                             calcium signal-modulating cyclophilin ligand; human; lymphocyte surface receptor; human; B-cell; B lymphocyte; infection; cancer; rheumatoid arthritis; autoimmune disease; glomerulonephritis; immunosuppressive; graft versus host disease; transplant rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            transplant rejection, cancer or graft versus host disease
                               transmembrane activator and CAML-interactor;
                                                                                                                                                                                              Location/Qualifiers
1. .166
/label= Extracellular_domain
/note= "Claim 8"
                                                                                                                                                                                                                                                                                                            167. .186
/label= Transmembrane_domain
                                                                                                                                                                                                                                                                                                                                                                       /label= Cytoplasmic_domain
/note= "Claim 6"
                                                                                                                                                                                                                                                                                            /note= "TNFR_NGFR motif"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (SJUD-) ST JUDE CHILDREN'S RES HOSPITAL.
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N-PSDB; AAV57328.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 293 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                03-MAR-1997;
                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                WO9839361-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bram RJ,
                                                                                                                               therapy.
                                                                                                                                                                                                    Key
Domain
                                                                                                                                                                                                                                                                           Peptide
                                                                                                                                                                                                                                                                                                                  Domain
                                                                                                                                                                                                                                                                                                                                                     Domain
                                 TACI,
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7;

24.3%; Score 195; DB 2; Length 293; ilarity 27.0%; Pred. No. 2.1e-10; Conservative 11; Mismatches 51; Indels 106; Gaps

Local Similarity Les 62, Conserv

Best Loc Matches

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Query Match

--GEFWDLSPGDSVITP 51

1 MRSCPEEQYWAALLGTCMFCKAICNHOSORTCAASC---

11 MRSCPERGYWDPLLGTCKSCKTICNHGGRTCAAPGGSGKSCGKFUDHLLADCISCA 90  52 NACPGSTIWHSGVAEERAGGONG
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Human; BR41x2; TACI receptor; extracellular domain; BCWA; B cell protein; transmembrane activator and CAMI-interactor; tumour necrosis factor; TNF; strf4 activity; antibody production; autoimmune disease; amyloidosis; systemic lupus erythematosus; myasthenia gravis; multiple sclarosis; rheumatoid arthritis; asthma; bronchitis; emphysema; pyelonephritis; end stage renal failure; glomerulonephritis; vasculitis; nephritis; renal neoplasm; multiple myeloma; lymphoma; light chain neuropathy; immunosuppression graft rejection; joint pain; igraft versus host disease; inflammation; swelling; anamia; septic shock; insulin dependent diabetes mellitus; Crohn's disease; hypertension; renal artery stenosis; occlusion; cholesterol; renal emboli.
                                                                                                                                                                               147 SPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPRQSPA 206
                                                                                                                91 SICGÓHPKOCAYFCENKLRSPVNLPPELR----RORSGEVENNSDNSGRYQGLEHRGSEA 146
                                                                                                                                                       ------CGTSYPSTFLLWPHCLLSVSNMPCSSLPRVL----- 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence represents a human transmembrane activator and CAMI-interactor (TACI) receptor. TACI is a tumour necrosis factor (TANE) receptor. The extracellular domains of BR4322 (an isoform of TACI), TACI or BCMA (a related B cell protean) receptor contain a cysteine rich domain, and are used for inhibiting zuff activity. Infer is TNF ligand. They may also be used for inhibiting BR4322, TACI or BCMA receptor-ligand engagement associated with activated or resting B lymphocytes, effector T-cells, or with antibody production. The antibody production is associated with an autoimmume disease selected from systemic lupus erythematosus, myasthania gravis, multiple sclerosis and rheumatoid arthritis. The ztnf4 activity and BR43x2, TACI or BCMA
Inhibiting zinf4 activity in a mammal, to treat autoimmune diseases, renal disease, graft versus host disease, and inflammation, comprises administering a BR43x2, TACI or BCMA extracellular domain polypeptide.
                                                                                                                                                                                                                                      --------CTCCSRCLECMLSIIFPQL-PPTQLSGLGP 136
                                                                             NACPQS------TIMPHSQVAEBRMAGGDVQ------
                                                                                                                                                                                                                                                             207 KSSQDHAMEAGSPVSTSPEPVETCSFC-----FPECRAPTQESAVTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A transmembrane activator and CAML-interactor (TACI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 149-150; 175pp; English
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                                                                                                                                                                                                                                                                                                                                                                             AAY94000 standard; protein; 293 AA
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N-PSDB; AAA58558.
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Gaps

24.3%; Score 195; DB 3; Length 293; 27.0%; Pred. No. 2.1e-10; Live 11; Mismatches 51; Indels 106;

Query Match
Best Local Similarity 27.0
Matches 62; Conservative

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receptor-ligand engagement is associated with asthma, bronchitis, emphysema, end stage renal failure, glomerulonephritis, vasculitis, nephritis, pyelonephritis, renal neoplasms, multiple myelomas, lymphomas, light chain neuropathy, amyloidosis, moderating immune response, immunosuppression, graft rejection, graft versus host disease, inflammation, insulin dependent diabetes mellitus, Crohn's disease, joint pain, swelling, anaemia, or septic shock. BR43x2, TACI, and BCMA polypeptides, fusions, antibodies, agonists or antagonists can be used to treat hypertension, renal artery stenosis, or occlusion, and cholesterol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SICGOHPKOCAYFCENKLRSPVNLPPELR----RORSGEVENNSDNSGRYOGLEHRGSEA 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          147 SPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPRQSPA 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9/
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autoimmune disease; rheumatoid arthritis; multiple sclerosis; psoriasis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; TNF; tumour necrosis factor; TALL-1; APRIL; TNF receptor; TNFR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MRSCPEEQYWAALLGTCMFCKAICNHOSQRTCAASC-----GEFWDLSPGDSVITP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WRSCPEEQYWDPLLGTCMSCKTICNHQSQRTCAAPCRSLSCRKEQGKFYDHLLRDCISCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ----CGTSYPSTFLLWPHCLLSVSNMPCSSLPRVL----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Сарв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pitti RM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Inhibiting or neutralizing TALL-1 or APRIL polypeptide biological activity, for treating autoimmune disorders and cancer, comprises exposing the cells to TALL-1 or APRIL polypeptide agonists or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -- CTCCSRCLECMLSIIFPQL-PPTQLSGLGP 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               207 KSSQDHAMEAGSPVSTSPEPVETCSFC-----FPECRAPTQESAVTP 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   51; Indels 106;
                                                                                                                                                                                                                                                                                                                                                                                                                               Length 293;
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                                                                                                                                                                                                                                                                                                                                                                                                                               ch 24.3%; Score 195; DB 3; Similarity 27.0%; Pred. No. 2.1e-10; 62; Conservative 11; Mismatches 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kim KJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAE09240 standard; protein; 293 AA
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2000US-0226986P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-541628/60.
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                                                                                                                                                                                                                                                                                                                                                                  Sequence 293 AA;
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Best Local
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The invention relates to methods of using one or more agonists or antagonists to modulate the activity of the members of TNF (tumour necrosis factor) especially TALL-1, APRIL and TNF receptor (TNFR) e.g. TACI or BCMA. The method is useful for treating pathological conditions or diseases associated with increased TALL-1 and APRIL expression or activity. TALL-1 and APRIL antagonists are used to block the interaction between APRIL and TALL-1 with TACI or BCMA. They are useful for treating cancers of lung and colon and autoimmune diseases e.g. rheumatoid arthritis, multiple sclerosis, psoriasis and lupus erythematosus. The present sequence is human TACI protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             77 ----- 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 147 SPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPRQSPA 206
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  tumour necrosis factor receptor; TNF; autoimmune disease; diabetes; caddium-asignal modulating cyclophilin ligand; CAMI; viral infection; neurokine alpha polypeptide; TACI-Ligand; TACI-L; cytostatic; therapy; neuroprotective; antidiabetic; antiviral; antinflammatory; tumour; neuroprotectic; antirheumatic; antiviral; antianflammatory; tumour; rheumatoid antidarbhic sclerosis; rheumatoid arthritis; antirheumatic; immunosupple sclerosis; rheumatoid arthritis; graft rejection; inflammation; cell proliferation; cell death; immunoglobulin B-mediated allergic reaction; Igs

    1166
    11abel= Extracellular domain
    11note= "Binds with amino acids 123-285 of extracellular domain of TACI-L"

                                                                                                                                                                                                                                                                                                                                                                                1 MRSCPEEQYWAALLGTCMPCKAICWHQSQRTCAASC-----GEFWDLSPGDSVITP
                                                                                                                                                                                                                                                                                                                                                                                                             31 MRSCPBEQYWDPLLGTCMSCKTICNHQSQRTCAAFCRSLSCRKEQGKFYDHLLRDCISCA
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                                                                                                                                                                                                                                                                                                Match 24.3%; Score 195; DB 4; Length 293; Local Similarity 27.0%; Pred. No. 2.1e-10; les 62; Conservative 11; Mismatches 51; Indels 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human tumour necrosis factor receptor (TACI) protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             52 NACPOS-----TLWPHSQVAEERMAGGDVQ--
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                                                                                                                                                                                                                                                              Sequence 293 AA;
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Domain

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The present sequence is a human tumour necrosis factor receptor (TACI) protein. TACI (Transmembrane activator and calcium-signal modulating cyclophilin ligand (CAML) interactor) forms a complex with neutrokine cyclophilin ligand (CAML) interactor) forms a complex with neutrokine complex is useful for modulating an intracellular signalling cascade mediated by TACI/TACI-L complex. Attagonists of TACI/TACI-L complex are used to inhibit the interaction between TACI and TACI-L for therapeutic purposes to treat tumour actions reastesis and to combat various autoimmune diseases e.g. multiple sclerosis and diabetes, as well as autoimmune diseases e.g. multiple sclerosis and diabetes, as well as cother disorders, such as viral infection, rhemmatoid arthritis, graft rejection, and immunoglobulin [13] E-mediated allergic reactions and inflammation. The interaction is used to study cellular processes condition with tumour necrosis factor (TMF) receptors such as immune regulation, cell proliferation, cell death and inflammatory responses. The interaction between the extracellular region of TACI -L can be used to further develop understanding of which cell types TACI-L can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      147 SPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPRQSPA 206
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human transmembrane activator CAML interactor protein; TACI; cytostatic; cell proliferation; tumour; vulnerary; renal cell cancer; mastocytoma; Kaposi's sarcoma; breast; ovarian carcinoma; rectal; throat; melanoma; colon; bladder; mammary adenocarcinoma; gastrointestinal; hyperplasia; pharyngeal squamous cell; stomach; cellular hyperproliferation; pannus; scleroderma; rheumatoid arthritis; scarring; liver; lung fibrosis; uterine.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31 MRSCPEEQYWDPLLGTCMSCKTICNHQSQRTCAAFCRSLSCRKEQGKFYDHLLRDCISCA 90
                                                                                                                                            TACI ligands to screen candidate molecules for determining agonist antagonist interactions which are used for treating inflammation.
                                                                                                                   of new interactions between tumor necrosis factor receptors (TACI)
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                                              WPI; 2001-016005/02
                                                                       N-PSDB; AAD02006
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This sequence represents the human transmembrane activator CAMI.

Interactor protein (TACI). The invention relates to treating a mammal for a condition associated with undesired cell proliferation (e.g. a solid tumour, or reducing the size of a solid tumour located on or in a mammal) cumour, or reducing the size of a solid tumour located on or in a mammal) comprising administering a transmembrane activator CAMI interactor comprising administering a transmembrane activator CAMI interactor activity. Treating a mammal (e.g. human, cow, horse, dog, mouse, rat or activity. Treating a mammal (e.g. human, cow, horse, dog, mouse, rat or cat) for a condition associated with undesired cancer, melanoma, colon cancer such as renal cell cancer, Kaposi's sarcoma, breast cancer, melanoma, colon cancer, bladder cancer, mastocytoma, lung cancer, memary adenocarcinoma, pharyngeal squamous cell carcinoma, gastrointestinal cancer or stomach cancer, in the method is a 180 useful for treating cellular chematod architis, post-surgical scarring and lung, liver and uterine theumatold archititis, post-surgical scarring and lung, liver and uterine of a mammal by 25% as compared to the mean survival time of a mammal in the absence of administering the TACI reagent. The TACI reagent also reduces the size of the tumour by 25% or more
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                                                                                                                                                                                                                                                                                                                                                                                                     Treating mammal for condition associated with undesired cell proliferation e.g., solid tumor or reducing solid tumor size located in mammal comprises administering transmembrane activator CAML interactor
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ilarity 27.0%; Pred. No. 2.1e-10;
Conservative 11; Mismatches 51; Indels 106; Gaps
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/label= Extracellular_domain
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completed: December 20, 2005, 10:38:53

Search completed: Do Job time : 188 secs

Location/Qualifiers

Homo sapiens

Key

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Query Match
Best Local Similarity
Matches 142; Conserv
ORGANISM: human
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TYPE: PRT
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Listing first 45 summaries
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Sequence 2, Application US/10618797
Publication No. US20040048296A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Ruben, Steven M
APPLICANT: Ruben, Steven M
TITLE OF INVENTION: Human Tumor Necrosis Factor TR20 and Methods Based Thereon
FILE REFERENCE: PF527D1
CURRENT APPLICATION NUMBER: US/10/618,797
CURRENT FILING DATE: 2003-07-15
FRIOR PILING DATE: 2001-05-04
FRIOR PILING DATE: 2000-05-05
NUMBER OF SEQ ID NOS: 4
SOFTWARE PARENT OF NOW S: 4
SOFTWARE PARENT OF NOW S: 4
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100.0%; Pred. No. 2.9e-69;
ive 0; Mismatches 0;
                                                      US-10-256-368-12
US-10-152-3638-52
US-09-858-158-15
US-09-855-158-15
US-10-293-816-6
US-11-07-418-6
US-10-152-3638-62
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US-09-854-864-18
US-09-855-158-18
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Patent No. US20020160416A1
GENERAL INFORMATION
APPLICANT: BOYLE, WILLIAM
APPLICANT: HSU, HAILING
TITLE OF INVENTION: RECEPTOR FROM TNF FAMILY
FILE REFERENCE: A-570B
CURRENT APPLICATION NUMBER: US/09/779,050A
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Fatent No. US20020160416A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: BOYLE, WILLIAM
APPLICANT: BOYLE, MILLIAM
TITLE OF INVENTION: RECEPTOR FROM TNF FAMILY
FILE REFERENCE: A-570B
CURRENT APPLICATION NUMBER: US/09/779,050A
CURRENT FILING DATE: 2001-02-12
FRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 52
SOFTWARE: Patentin version 3.0
CURRENT FILING DATE: 2001-02-12
PRIOR APPLICATION UNMBER: 60/181,800
PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 52
SOFTWARE: Petentin version 3.0
LENGTH: 291
                                                                                                                                                                           ORGANISM: Homo sapiens
US-09-779-050A-43
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ORGANISM: Homo sapiens
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Best Local Similarity
Matches 62; Conserv
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Matches 62; Conserv
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US-09-779-050A-42
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LENGTH: 293
                                                                                                                                                      TYPE: PRT
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91 SICGOHPKOCAYFCENKIRSPVNIPPEIR----RORSGEVENNSDNSGRYOGLEHRGSEA 146
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Best Local Similarity 27.0%; Pred. No. 1.5e-10;
Matches 62; Conservative 11; Mismatches 51; Indels 106; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-485-489-19
; Sequence 19, Application US/10485489
; Sequence 19, Application US/10485489
; Publication No. US20500070689A1
; Publication No. US20500070689A1
; APPLICANT: Dixit, Vishva
; APPLICANT: Ridgway, John
; APPLICANT: Ridgway, John
; TITLE OF INVENTION: TACIS and BR3 Polypeptides and Uses Thereof
; TITLE OF INVENTION: TACIS and BR3 Polypeptides and Uses Thereof
; FILE REFERENCE: 11669.17918WO
; CURRENT PILING DATE: 2004-01-30
; PRIOR APPLICATION NUMBER: US 60/310,114
; PRIOR APPLICATION NUMBER: US 60/310,114
; PRIOR PILING DATE: 2001-08-03
; PRIOR PILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 19
; SEQ ID NO 19
; LEWING DATE: 265
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                                                                                                                                                                APPLICANT: CHUNTHARAPAI, ANAN
APPLICANT: GREWAL, IQBAL
APPLICANT: KIN, KYUNG JIN
APPLICANT: KIN, KYUNG JIN
APPLICANT: XIN, MINHONG
TITLE OF INVENTION: TACI Antibodies and Uses Thereof
FILE REFERENCE: P1942R1
CURRENT APPLICATION NUMBER: US/10/626,914
CURRENT PILING DATE: 2003-07-25
PRIOR APPLICATION NUMBER: US 60/398,530
PRIOR PILING DATE: 2002-07-25
NUMBER OF SEQ ID NOS: 17
SEQ ID NO 17
LENGTH: 265
RESULT 4
US-10-626-914-17
IS-10-626-914-17

Sequence 17, Application US/10626914

Publication No. US20050043516A1

GENERAL INFORMATION:
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Homo sapien
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Best Local Similarity
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                                                                                                                                                                                                                        ---CGTSYPSTFLLWPHCLLSVSNMPCSSLPRVL---- 107
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                                                                                            31 MRSCPEEQYWDPLLGTCMSCKTICNHQSQRTCAAFCRSLSCRKEQGKFYDHLLRDCISCA 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31 MRSCPEEQYWDPLLGTCMSCKTICNHQSQRTCAAFCRSLSCRKEQGKFYDHLLRDCISCA 90
                                                      1 MRSCPERQYWAALLGICMFCKAICHHOSORICAASC----GEFWDLSPGDSVITP 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MRSCPEROYWAALLGTCMFCKAICNHQSQRTCAASC-----GEFWDLSPGDSVITP 51
                                                                                                                                       52 NACPQS------TLWPHSQVAEERMAGGDVQ---------
             51; Indels 106; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    --CICCSRCLECMLSIFPQL-PPTQLSGLGP 136
                                                                                                                                                                                                                                                                                                         --- CTCCSRCLECMLSIIFPQL-PPTQLSGLGP 136
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Qian Gong
APPLICANT: Qian Gong
TITLE OF INVENTION: COMBINATION THERAPY FOR B CELL DISORDERS
TITLE OF INVENTION: COMBINATION THERAPY FOR B CELL DISORDERS
FILE REFERENCE: P204401US
CURRENT APPLICATION NUMBER: US/04-04
PRIOR PILING DATE: 2003-06-06
PRIOR FILING DATE: 2003-06-06
PRIOR FILING DATE: 2003-06-05
PRIOR FILING DATE: 2003-06-05
PRIOR PILING DATE: 2003-06-05
PRIOR PILING DATE: 2003-06-05
PRIOR PILING DATE: 2003-06-05
PRIOR FILING DATE: 2003-06-15
PRIOR FILING DATE: 2003-06-15
PRIOR FILING DATE: 2003-06-15
PRIOR FILING DATE: 2003-06-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 24.3%; Score 195; DB 5; Length 265; Best Local Similarity 27.0%; Pred. No. 1.5e-10; Matches 62; Conservative 11; Mismatches 51; Indels 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ---TLWPHSQVAEERMAGGDVQ---
. 62; Conservative 11; Mismatches
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Sequence 36, Application US/10861049
Publication No. US20050095243A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Sequence 36, Application US/11021874; Publication No. US20050163775A1; GENERAL INFORMATION:
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APPLICANT: Qian Gong
APPLICANT: Flavius Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
US-10-861-049-36
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               Matches
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91 SICGÓHPKOCAYFCENKLRSPVNLPPELR----RORSGEVENNSDNSGRYOGLEHRGSEA 146
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US-09-879-919-219-22

Sequence 22, Application US/09879919

Factor No. US20020064829A1

GENERAL INFORMATION:

TITLE OF INVENTION: Human Tumor Necrosis Factor Delta and Epsilon

FILE REFRENCE: PF253P1

CURRENT APPLICATION NUMBER: US/09/879,919

CURRENT FILING DATE: 2001-05-25

FRIOR FILING DATE: 2001-05-25

FRIOR FILING DATE: 2001-05-25

FRIOR FILING DATE: 2001-03-23

FRIOR APPLICATION NUMBER: 60/276,248

FRIOR PELING DATE: 2000-12-13

FRIOR APPLICATION NUMBER: 60/244,952

FRIOR PELING DATE: 2000-10-23

FRIOR PELING DATE: 2000-10-3

FRIOR PELING DATE: 2000-10-3

FRIOR PELING DATE: 2000-10-3

FRIOR PELING DATE: 2000-10-3

FRIOR PELING DATE: 1996-03-14

NUMBER: OF SEQ ID NOS: 26

SOFTWARE: PATENTING DATE: 1996-03-14

NUMBER: PATENTING DATE: 1996-03-14

NUMBER: PATENTING DATE: 1996-03-14

NUMBER: PATENTING DATE: 1996-03-14

SEQ ID NO 22

LENGTH: 293

TYPE: PRT

NORANISM: Home sapiens

US-09-879-919-22
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1.5e-10;
INVENTION: COMBINATION THERAPY FOR B CELL DISORDERS
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                   CURRENT APPLICATION NUMBER: US/11/021,874
CURRENT FILIANG DATE: 2004-12-22
CURRENT FILIANG DATE: 2004-06-04
PRIOR APPLICATION NUMBER: US 60/476,531
PRIOR PILING DATE: 2003-06-06
PRIOR PILING DATE: 2003-06-06
PRIOR PILING DATE: 2003-06-06
PRIOR PILING DATE: 2003-06-05
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US-11-021-874-36
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APPLICANT: THEILL, LARS EYDE
APPLICANT: THEILL, LARS EYDE
APPLICANT: YU, GANG
TITLE OF INVENTION: BLYS/AGP-3, AND TACI
FILE REFERENCE: A-686B
CURRENT APPLICATION NUMBER: US 60/204,039
PRIOR APPLICATION NUMBER: US 60/204,039
PRIOR APPLICATION NUMBER: US 60/214,591
PRIOR APPLICATION NUMBER: US 60/214,591
PRIOR FILING DATE: 2000-06-17
NUMBER OF SEQ ID NOS: 31
SEQ ID NO 14
SEQ ID NO 14
                                                                                                                                                                                               91 SICGOHPKOCAYFCENKLRSPVNLPPELR----RORSGEVENNSDNSGRYOGLEHRGSEA 146
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                                                                                                                                                                                                                                        -----CGTSYPSTFLLWPHCLLSVSNMPCSSLPRVL---- 107
                                                                                                     --CGISYPSTFLLWPHCLLSVSNMPCSSLPRVL-----
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                                       Gaps
                                                                                                                                                                                                                                                                                                                     108 ------PPTQLSGLGC 136
                                                                                                                                                                                                                                                                                                                                            207 KSSQDHAMEAGSPVSTSPEPVETCSFC------FPECRAPTQESAVTP 248
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                                       51; Indels 106;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   52 NACPQS-----TLWPHSQVAEERMAGGDVQ------
                                                                                                                                                         52 NACPQS-----TLWPHSQVAEERMAGGDVQ-----
ch 24.3%; Score 195; DB 3; Length 293; I Similarity 27.0%; Pred. No. 1.7e-10; 62; Conservative 11; Mismatches 51; Indels 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   th 24.3%; Score 195; DB 3; Length 293; I Similarity 27.0%; Pred. No. 1.7e-10; 62; Conservative 11; Mismatches 51; Indels 10
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US-09-855-158-14
; Sequence 14, Application US/09855158
; Publication No. US2020086018A1
; GENERAL INFORMATION:
; APPLICANT: THEILL, LARS EYDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 14, Application US/09854864; Patent No. US20020081296A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Homo sapiens
US-09-854-864-14
Query Match
Best Local Similarity
Matches 62; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
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US-09-854-864-14
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TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA, BLATILE OF INVENTION: 3, AND TACI
TITLE OF INVENTION: 3, AND TACI
FILE REFERENCE A-686A
CURRENT APPLICATION NUMBER: US/09/855,158
CURRENT FILING DATE: 2001-09-11
PRIOR APPLICATION NUMBER: US 60/214,591
PRIOR APPLICATION NUMBER: US 60/214,591
PRIOR APPLICATION NUMBER: US 60/204,039
PRIOR FILING DATE: 2000-05-12
NUMBER OF SEQ ID NOS: 30
SOFTWARE: Patentin version 3.1
SEQ ID NO 14
LENGTH: 293
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j Sequence 2. Application US/09961376

j Patent No. US20020106736A1

j REMERAL INFORMATION:

APPLICATION:

TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor TR17

FILE REFERENCE: PF524P1

CURRENT APPLICATION NUMBER: US/09/961,376

CURRENT APPLICATION NUMBER: 60/254,874

PRIOR APPLICATION NUMBER: 60/254,874

PRIOR FILING DATE: 2000-12-13

PRIOR FILING DATE: 2000-09-26

PRIOR FILING DATE: 2000-09-26

PRIOR FILING DATE: 2000-09-26

PRIOR PLING DATE: 2000-09-10

NUMBER OF SEQ ID NOS: 7

SOFTWARE: PatentIN Ver. 2.1

SEQ ID NO 2

LENGTH: 293
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Best Local Similarity 27.0%; Pred. No. 1.7e-10;
Matches 62; Conservative 11; Mismatches 51.
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ORGANISM: Homo sapiens
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AE	PLICANT: Din, Wanwan S. TLE OF INVENTION: METHODS OF USE OF THE TACI/TACI-L INTERACTION	<b>q</b>	207 KSSQDHAMI
 	; FILE REFERENCE: 2519; ; FILE REFERENCE: 2519; ; CURRENT PELLING DATE: 1999-04-30	RESULT US-10-	14 087-192-1650
N S	MBER OF SEQ ID NOS: 5 THYRE: PatentIn Ver. 2.0	; Sequent ; Publ.	ence 1650, Application No. US200
 	SEC ID NO 2 LENGTH: 293	APP	LICANT: Morris, I
, 0 , US-09	; TYPE: FKI  TOTALNISM: Human US-09-302-863-2	APP.	LE OF INVENTION: LE OF INVENTION: LE OF INVENTION:
Que	Query Match 24.3%; Score 195; DB 3; Length 293; Best Local Similarity 27.0%; Pred. No. 1.7e-10;	, FILL , CURI	; FILE REFERENCE: 529. ; CURRENT APPLICATION ; CURRENT FILING DATE:
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<i>&amp;</i> ∶	1 MRSCPERQYWAALLGTCMFCKAICNHOSORTCAASCGEFWDLSPGDSVITP 51	PRIC	PRIOR APPLICATION IN
සි	31 MRSCPEBQYWDPLLGTCMSCKTICNHQSQRTCAAFCRSLSCRKEQGKFYDHLLRDCISCA 90	SOF	BER OF SEQ ID NO: TWARE: FastSEQ fo
<u></u>	52 NACPOS 76 52 NACPOS 76 52 NACPOS 76 53 NACPOS 76 54 NACPOS	SEQ ,	SEQ ID NO 1650 LENGTH: 293 TYPE: PPT
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÷ £	SPALPGI-KI-SADOVALVYSTI-GI-CI-CAVI-CCFI-VAVACEI-KKRGID-CSCOPRSPROSPA	Lano Dae	Ouerv Match
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RESULT US-09-8	RESULT 13 US-09-855-564-2	Š	52 NACPQS
Sed ;	Sequence 2, Application US/09855564 Publication No. US20030165986Al	셤	:     91 SICGQHPK(
, GEN	AAPPICANT: Goodwin: Raymond G	ò	
A L	APPLICANT: DID, WATWAIN S. TITLE OF INVENTION: METHODS OF USE OF THE TACI/TACI-L INTERACTION	셤	147 SPALPGLKI
:88	LE KEFEKENCE: 2319 THENT APPLICATION NUMBER: US/09/855,564	8	108
388	CURRENT FILLING DAILS: 2001-2014 PRIOR PELING DAIE: 1999-04-30	qa	207 KSSQDHAMI
SEO S	NUMBER OF SEQ ID NOS: 5 SOFTWARE: Patentin Ver. 2.0 EQ ID NO 2	RESULT 15 US-10-084	RESULT 15 US-10-084-971-2
; ; , , , , , ,	; LENGTH: 293 ; TYPE: PT ; ORGANISM: Human  US-09-855-564-2	; seque ; publ. ; GENEI ; APP!	Sequence 2, Application Publication No. US200 GENERAL INFORMATION: APPLICANT: Human Gen

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ervative 11; Mismatches 51; Indels 10
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IION NUMBER: US/10/087,192

NN NUMBER: US 09/747,377

TE: 2000-12-22

NN NUMBER: US 09/798,586

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FILE REFERENCE: PF524PCT

CURRENT APPLICATION NUMBER: US/10/084,971

CURRENT APPLICATION NUMBER: US/10/084,971

CURRENT FILING DATE: 2002-03-01

PRIOR FILING DATE: EARLIER APPLICATION NUMBER: US/09/533,822

PRIOR FILING DATE: EARLIER FILING DATE: 2000-03-24

PRIOR FILING DATE: EARLIER PELICATION NUMBER: 60/126,599

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NUMBER: OF SEQ ID NOS: 5

SOFTWARE: PATENTING DATE: 1999-03-10

LENGTH: 293

TYPE: PRT

ORGANISM: HOMO sapiens
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1 MRSCPEEQYWAALLGTCMFC.......PPQLPPTQLSGLGPNIGGLL 142
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### ALIGNMENTS

RESULT.  10 G28795 HUMAN  110 G28795 HUMAN  111 G28795 HUMAN  112 G28795 HUMAN  113 G28795 HUMAN  113 G28795 HUMAN  114 G28795 HUMAN  115 G28795 HUMAN  119 HUMAN  110
9736 HUMAN PRELIMINARY; PRT; 293 AA.  0537856 HUMAN PRELIMINARY; PRT; 293 AA.  0537876 THORAN PRELIMINARY; PRT; 293 AA.  0537876 THORAN PRELIMINARY; PRT; 293 AA.  0537876 THORAN PRELIMINARY; PRT; 293 AA.  13-SEP-2005 (TERBILE-1 31, Last amocation update)  13-SEP-2006 (TERBILE-1 31, Last amocation update)  13-SEP-2006 (TERBILE-1 31, Last amocation update)  13-SEP-2007 (TERBILE-1 31, MALUAGA A., Takeda T., Sakaki Y., Tanaka A., Yokoyama S.; Submitted (ARR-2005) to the EMBL/GenBank/DDBJ databases  13-SEP-2007 (TERBILE-1 31, MALUAGA A., Takeda T., Sakaki Y., Tanaka A., Yokoyama S.; Submitted (ARR-2005) to the EMBL/GenBank/DDBJ databases  13-SEP-2007 (TERBILE-1 31, MALUAGA A., Takeda T., Sakaki Y., Tanaka A., Yokoyama S.; Submitted (ARR-2005) to the EMBL/GenBank/DDBJ databases  13-SEP-2007 (TERBILE-1 31, MALUAGA A., Takeda T., Sakaki Y., Tanaka A., Yokoyama S.; Submitted (ARR-2005) to the EMBL/GenBank/DDBJ databases  13-SEP-2007 (TERBILE-1 31, MARSCPEEQYMOALLGTCHARCATARCARGA CASAGENTARE
13-58P-2005 (TERBILEAL) 31, Created) 13-58P-2005 (TERBILEAL) 31, Last sequence update) 13-58P-2005 (TERBILEAL) 31, Last amoration update) 13-58P-2005 (TERBILEAL) 13-58P-2005 (TERBILEAL) 31, Macuyama K., Suyama A., Suyano S., Suzuki Y., Yoshicono K., Maruyama K., Suyama A., Suyano S., Construction and characterization of a full length-enriched and a S. 13-58P-2005 (TERBILEAL)
13-58P-2005 (TERMELTE) 131, Created) 13-58P-2005 (TERMELTE) 131, Last sequence update) 13-58P-2005 (TERMELTE) 131, Last sequence update) 13-58P-2005 (TERMELTE) 131, Last annocation update) 13-58P-2005 (TERMELTE) 13-
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13-75 HUMAN PRELIMINARY; PRT; 293 AA.  053F95 HUMAN  053F95 HUMAN PRELIMINARY; PRT; 293 AA.  13-SEP-2005 (TrEMBLrel: 31, Last sequence update)  14-SEP-2005 (TrEMBLrel: 31, Last sequence update)  15-SEP-2005 (TrEMBLrel: 31, Last sequence update)  16-SEP-2005 (TrEMBLrel: 31, Last sequence update)  17-SEP-2005 (TrEMBLrel: 31, Last sequence update)  18-SEP-2005 (TrEMBLRel: 31, MARMLREL: 31, Last update)  18-SEP-2005 (TrEMBLRel: 31, MARMLREPORTALINITAL Update updat
13-516 HUMAN Q53F36_HUMAN PRELIMINARY; PRT; 293 AA.  13-SEP-2005 (TrEMBLrel: 31, Last sequence update) 13-SEP-2005 (TrEMBLrel: 31, Last sequence update) 13-SEP-2005 (TrEMBLrel: 31, Last sequence) 14
13-535 - HUMAN  Q53F36 - HUMAN  13-SEP-2005 (TrEMBLrel. 31, Last sequence update)  NUCLEOTIDE SEQUENCE.  TISSUE-Small intestine;  NUCLEOTIDE SEQUENCE.  TISSUE-Small intestine;  Suzuki Y., Yoshitomo K., Maruyama K., Suyama A., Sugano S.;  Suzuki Y., Yoshitomo K., Maruyama K., Suyama A., Sugano S.;  Suzuki Y., Yoshitomo K., Maruyama K., Suyama A., Sugano S.;  Suzuki Y., Yoshitomo K., Maruyama K., Suyama A., Yokoyama S.;  Suzuki Y., Toshitomo K., Maruyama K., Suyama A., Yokoyama S.;  Submitted (D97).  [3]  NUCLEOTIDE SEQUENCE.  TISSUE-Small intestine;  Totoki Y., Toyoda A., Takeda T., Sakaki Y., Tanaka A., Yokoyama S.;  Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.  FRESIDENCE 203 AA; 31846 MW; DDBAZF2BB3BF466D CRC64;  TOTOKI Y., Toyoda A., 11, 11, MISMBATCHES SI, Indels 106; Gaps  Submitted (APR-2005) as to the EMBL/GenBank B.; Local Similarity S.) as to Local Similarity S.). Indels 106; Gaps
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SULT 1 3P36 HUMAN PRELIMINARY; PRT; 293 AA. 6053P36; 13-SEP-2005 (TrEMBLrel. 31, Created) 13-SEP-2005 (TrEMBLrel. 31, Last sequence update) 13-SEP-2005 (TrEMBLrel. 31, Last annotation update) 13-SEP-2005 (TrEMBLrel. 31, Last annotation) 13-SEP-2005 (TrEMBLrel. 31, Last annotation S.; Construction and characterization of a full length-enriched and a 5' Gene 200:149-156(1997). 13  13  14 NUCLEOTIDE SEQUENCE. 15 NUCLEOTIDE SEQUENCE. 15 NUCLEOTIDE SEQUENCE. 17 SEQUENCE. 18 NUCLEOTIDE SEQUENCE.
STULT 1  SP36 HUMAN PRELIMINARY; PRT; 293 AA.  G53F36;  13-SEP-2005 (TrEMBLrel. 31, Created)  13-SEP-2005 (TrEMBLrel. 31, Last sequence update)  13-SEP-2005 (TrEMBLrel. 31, Last annotation update)  13-SEP-2005 (TrEMBLrel. 31, Last annotation update)  Tumor necrosins factor receptor 138 variant (Fragment).  Homo sapiens (Human).  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  Manualia; Butheria; Buarchontoglires; Primates; Catarrhini; Hominidae  Homo.  NCBI TaxID=9606;  [1]  NUCLEOTIDE SEQUENCE.  TISSUE-Small intestine;  Maruyama K., Sugano S.;  Gene 138:171-174(1994).  [2]  NUCLEOTIDE SEQUENCE.  TISSUE-Small intestine;  Maruyama K., Sugano S.;  Gene 138:171-174(1994).  [2]  NUCLEOTIDE SEQUENCE.  TISSUE-Small intestine;  Suzuki Y., Yoshitomo K., Maruyama K., Suyama A., Sugano S.;  "Construction and characterization of a full length-enriched and a S'  Gene-enriched cDNA library.";  Gene-enriched cDNA library.";  Gene-enriched cDNA library.";  Gene-enriched cDNA library.";  HUGLEOTIDE SEQUENCE.  MIGGEOTIDE SEQUENCE.
STUT. 1 SP36 HUMAN PRELIMINARY; PRT; 293 AA. G5.8736; 13-SEP-2005 (TrEMBLrel. 31, Created) 13-SEP-2005 (TrEMBLrel. 31, Last sequence update) 13-SEP-2005 (TrEMBLrel. 31, Last annotation 13-SEP-2005 (TrEMBLRel.) 13-SEP-2005 (TrEMBLRel.) 13-SEP-2005 (TrEMBLRel.) 13-SEP-2005 (TrEMBLRel.) 14-SEP-2005 (TrEMBLRel.) 15-SUZUKI 21, Yoshitono 15-SUZUKI 21, SUSUMA 11brary."; 16-SUSUKI 21-SEP-SUZUKI 21, SUSUMA 21, SUSU
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SULT 1  OF 3F26 HUMAN PRELIMINARY; PRT; 293 AA.  OF 3F26 HUMAN PRELIMINARY; PRT; 293 AA.  OF 3F26;  Independent (Human).  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  Mammalla; Butheria; Buarchontoglires; Primates; Catarrhini; Hominidae  NOBI TaxID=9606;  Independent (Human).  NOLLEOTIDE SEQUENCE.  TISSUE=Small intestine;  Maruyama K., Sugano S.;  Oligo-capping; a slimple method to replace the cap structure of eucaryotic mRNAs with oligoribonucleotides.";  Gene 138:171-174(1994).  TISSUE=Small intestine;  NUCLEOTIDE SEQUENCE.  TISSUE=Small intestine;  NUCLEOTIDE SEQUENCE.  TISSUE=Small intestine;  Suzuki Y., Yoshitomo K., Maruyama K., Suyama A., Sugano S.;  "Construction and characterization of a full length-enriched and a 5' end-enriched cDNA library.";
SILT. 1  SPIGE HUMAN PRELIMINARY; PRT; 293 AA.  G53F26 HUMAN PRELIMINARY; PRT; 293 AA.  G53F36;  13-SEP-2005 (TrEMBLrel. 31, Last sequence update)  13-SEP-2005 (TrEMBLrel. 31, Last annotation update)  Homo sapiens (Human).  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  Manuyama K., Sugano C.;  MOCLEOTIDE SEQUENCE.  TISSUE-Small intestine;  Manuyama K., Sugano S.;  "Ollgor-capping: a simple method to replace the cap structure of eucaryotic mRNAs with Oligoribonucleotides.";  Gene 138:171-174 (1994).  [2]  NUCLEOTIDE SEQUENCE.  TISSUE-Small intestine;  Sugano S.;  TISSUE-Small intestine;  Sugano S.;  "Construction and characterization of a full length-enriched and a S.
SULT I  SPIGE HUMAN  SPIGE  GS.PS.E HUMAN PRELIMINARY; PRT; 293 AA.  GS.PS.E HUMAN PRELIMINARY; PRT; 293 AA.  GS.PS.E HUMAN PRELIMINARY;  13-SEP-2005 (TrEMBLrel. 31, Last sequence update)  13-SEP-2005 (TrEMBLrel. 31, Last annotation update)  13-SEP-2005 (TrEMBLrel. 31, Last annotation update)  Tumor necrosis factor receptor 13B variant (Fragment).  Home sapiens (Human).  Bukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleos Mammalia; Butheria; Euarchontoglires; Primates; Catarrhini; Hommo.  NCBI_TaxID=9606;  [1]  NUCLEOTIDE SEQUENCE.  TISSUB=Small intestine;  Maruyama K., Sugano S.;  "Oligo-capping: a simple method to replace the cap structuz eucaryotic mRNAs with oligoribonucleotides.";  Gene 138:171-174(1994).  [2]  NUCLEOTIDE SEQUENCE.  TISSUB=Small intestine;  NUCLEOTIDE SEQUENCE.  TISSUB-SMall Intestine;  NUCLEOTIDE SEQUENCE.
SULT 1 3F36 HUMAN PRELIMINARY; FRT; 293 AA. Q53F36 HUMAN PRELIMINARY; FRT; 293 AA. Q53F36. 13-SEP-2005 (TrEMBLrel. 31, Last sequence update) 13-SEP-2005 (TrEMBLrel. 31, Last sequence update) 13-SEP-2005 (TrEMBLrel. 31, Last annotation update) 14-SEP-2005 (TrEMBLrel. 31, Last annotation update) 15-SEP-2005 (TrEMBLrel. 31, Last annotation update) 16-SUBSTAND MACHANA
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STUTT 1  3F36 HUMAN  G57876_HUMAN PRELIMINARY; PRT; 293 AA.  G57876_ 13-SEP-2005 (TrEMBLrel. 31, Last sequence update) 13-SEP-2005 (TrEMBLrel. 31, Last sequence update) 13-SEP-2005 (TrEMBLrel. 31, Last annotation update) 13-SEP-2005 (TrEMBLrel. 31, Last update) 13-SEP-2
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SULT 1 3F36 HUMAN PRELIMINARY; PRT; 293 AA. 053F36 HUMAN PRELIMINARY; PRT; 293 AA. 053F36   13-SEP-2005 (TrEMBLrel. 31, Last sequence update) 13-SEP-2005 (TrEMBLrel. 31, Last annotation update) 14-MUCLEOTIDE SEQUENCE. 15-SEP-2005 (TrEMBLrel. 31, Last annotation) 15-SEP-2005 (TrEMBLrel. 31, Last annotation) 17-SEP-2005 (TrEMBLrel. 31, Last annotation) 18-SEP-2005 (TrEMBLRel.
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SULT 1 3F36 HUMAN 053F36 HUMAN PRELIMINARY; PRT; 293 AA. 053F36   13-SEP-2005 (TrEMBLrel. 31, Last sequence update) 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
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SULT 1 3F36 HUMAN QS3F36 HUMAN PRELIMINARY; PRT; 293

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PubMed=15542592; DOI=10.1074/jbc.M411714200;
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PubMed=15542592; DOI=10.1074/jbc.M411714200;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Euthería; Euarchontoglires; Primates; Catarrhini; Hominidae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=20341628; DUMEd=10880535; DOI=10.1084/jem.192.1.137; Xia X.-Z., Treanor J., Sanaldi G., Khare S.D., Boone T., Kelley M., Theill L.E., Colombero A., Solovyev I., Lee F., McCabe S., Elliott R., Miner K., Hawkins N., Guo J., Stolina M., Yu G., Wang J., Delaney J., Meng S.-Y., Boyle W.J., Hau H.; TACI is a TRAF-interacting receptor for TALL-1, a tumor necrosis factor family member involved in B cell regulation.";
                                                                                                                                                                                                                                             14836; Q726F5; 28-FEB-2003 (Rel. 41, Created) 28-FEB-2003 (Rel. 41, Last sequence update) 13-SEP-2005 (Rel. 48, Last annotation update) Tumor necrosis factor receptor superfamily member 13B (Transmembrane activator and CAML interactor).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=97458245; PubMed=9311921; DOI=10.1126/science.278.5335.138; von Buelow G.-U., Bram R.J.; "NF-AT activation induced by a CAML-interacting member of the tumor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINES. 20519647; PubMed=10956646; DOI=10.1074/jbc.M005224200; Wu Y., Bressette D., Carrell J.A., Kaufman T., Feng P., Taylor K., Gan Y., Cho Y.H., Garcia A.D., Gollatz E., Dinke D., LaFleur D., Migone T.S., Nardelli B., Wei P., Ruben S.M., Ullrich S.J., Olsen H.S., Kanakaraj P., Moore P.A., Baker K.P.; ullrich S.J., Tumor necrosis factor (TMF) receptor superfamily member TACI is a high affinity receptor for TNF family member APRIL and BLyS."; J. Biol. Chem. 275:35478-35485(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X-RAY CRYSTALLOGRAPHY (1.9 ANGSTROMS) OF 68-109, AND STRUCTURE BY
207 KSSQDHAMEAGSPVSTSPEPVETCSFC-----FPECRAPTQESAVTP 248
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Zhou G., Ke R., Li H., Zheng G., Shen C., Lin L., Yang Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=21170294; PubMed=10973284; DOI=10.1038/79802;
                                                                                                                                                                                                                      293 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            necrosis factor receptor superfamily."; Science 278:138-141(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE [MRNA] (ISOFORM 1).
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                                                                                                                                                                                                                      STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9606;
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This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
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                                                                                                                                                                         IsoId=014836-2; Sequence=VSP_013798;
TISSUB SPECIFICITY: Highly expressed in spleen, thymus, small
intestine and peripheral blood leukccytes. Expressed in resting
cells and activated T-cells, but not in resting T-cells.
of NF-kappa-B and AP-1. Involved in the stimulation of B- and cell function and the regulation of humoral immunity. SUBUNIT: Binds TRAF2, TRAF5 and TRAF6. Binds the NH2-terminal domain of CAMLG with its C-terminus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               51; Indels 106;
                                                              O75888:TNFSF13; NDExp=1; IntAct=EBI-519160, EBI-519208; O9Y2727:TNFSF13B; NDExp=4; IntAct=EBI-519160, EBI-519169; SUBCELLULAR LOCATION: Type III membrane protein. ALTERNATIVE PRODUCTS:
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24.3%; Score 195; DB 1; Length 293;
Best Local Similarity 27.0%; Pred. No. 1.4e-10;
Matches 62; Conservative 11; Mismatches 51; Indels 19
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GO:0004872; F:receptor activity; TAS.
GO; GO:0007166; P:cell surface receptor linked signal
GD: GO:0007166; P:cell surface receptor linked signal
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                                                                                                                      Event=Alternative splicing; Named isoforms=2;
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By similarity.
By similarity.
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                                                                                                                                               IsoId=014836-1; Sequence=Displayed;
                                                                                                                                                                                                                                                                                                                                                                                                          Ensembl; ENSG0000108516; Homo sapiens.
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EMBL; AY302137; AAP57629.1; -; mENA.
PDB; IXU1; X-ray; R/S/T=68-109.
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147 SPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPRQSPA 206
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Yan M., Marsters S.A., Grewal I.S., Wang H., Ashkenazi A., Dixit V.M.;
"Identification of a receptor for BLyS demonstrates a crucial role in
                                                                                                                                                                                                                                                                                                                                            Mus musculus (Mouse).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Buarchontoglires; Glires; Rodentia; Sciurognathi;
Muridae; Murinae; Mus.
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Mammalia, Butheria, Buarchontoglires, Glires, Rodentia, Sciurognathi,
Muroidea, Muridae, Murinae, Mus.
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QBTIJ5; QDBEZ3;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
Tumor necrosis factor receptor superfamily member 13B (Transmembrane activator and CAML interactor).
Name-Thfref13b; Synonyms-Taci;
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NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;
OKazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
                                      ---CTCCSRCLECMLSIIFPQL-PPTQLSGLGP 136
                                                                             207 KSSQDHAMEAGSPVSTSPEPVETCSFC-----FPECRAPTQESAVTP 248
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (FEB-2005) to the EMBL/GenBank/DDBJ databases.
EMBL; AL646093; CAI25895.1; -; Genomic DNA.
GO; GO:0004872; F:receptor activity; IEA.
                                                                                                                                                                                                                    01-FEB-2005 (TrEMBLrel. 29, Created)
01-FEB-2005 (TrEMBLrel. 29, Last sequence update)
01-FEB-2005 (TrEMBLrel. 29, Last annotation update)
Tumor necrosis factor receptor superfamily, member 13b
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140 AA; 15672 MW; 005D8CDF4E8E3D15 CRC64;
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32.3%; Pred. No. 0.018;
tive 10; Mismatches 25;
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QSSU83;
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STCTQ 67
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Mammalia, Eutheria, Euarchontoglires, Glires, Rodentia, Sciurognathi,
Muridae, Murinae, Mus.
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        PROSITE, PS50050; TNFR NGFR 2; FALSE NEG.

        Immune response; Receptor; Repeat; Signal-anchor; Transmembrane.

        TOPO DOM
        1 128
        Extracallular (Potential).

        TRANSMEM
        129 149
        Signal-anchor for type III membrane protein (Potential).

        TOPO DOM
        150 249
        Cytoplasmic (Potential).

        REPEAT
        5 38
        TNFR-Cys 1.

        REPEAT
        6 19
        By similarity.

        DISULFID
        26 34
        Similarity.

        DISULFID
        26 38
        Similarity.

        DISULFID
        61
        By similarity.

        DISULFID
        65
        Re similarity.

        CONFLICT
        137
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        1 -> F (in Ref. 2).

        CONFLICT
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        137
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        SEQUENCE
        249 AA; 26947 MW; CB2F2D6IC293ID81 CRC64;

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                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 249;
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13.4%; Score 107.5; DB 1; Length;
Best Local Similarity 32.3%; Pred. No. 0.033;
Matches 21; Conservative 10; Mismatches 25; Indels
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Submitted (FEB-2005) to the EMBL/GenBank/DDBJ databases
EMBL; AL646093; CAI25896.1; -; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-MAX-2005 (TrEMBLrel. 30, Created)
10-MAX-2005 (TrEMBLrel. 30, Last sequence update)
10-MAX-2005 (TrEMBLrel. 30, Last annotation update)
Tumor necrosis factor receptor superfamily, member 13b.
Name=Tnfref13b; ORFNames=RP23-5512.2-001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CB2F2D61C2931D81 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             249 AA; 26947 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        071567
074567, TRIHA PRELIMINARY;
074567; 01-00-1998 (TEMBLEEL: 08, C
01-00-1998 (TEMBLEEL: 08, L
01-0CT-2003 (TEMBLEEL: 25, L
Q174 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05SU82_MOUSE PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NACPO 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : | |
STCTQ 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NACPQ 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STĊTO 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Receptor.
SEQUENCE
                                                                                                                                                                                            DISULFID
DISULFID
DISULFID
DISULFID
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DISULFID
CONFLICT
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TRANSMEM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               34 ASCGEFWDLSPGDSVITPNACPOSTLWPHSQVAEBRMAGGDVQCG--TSYPSTFLLWPHC 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         . .; IEA
                                                                                                                                                                                                                    MEDLINE-9826335; PubMed=9600944; DOI=10.1073/pnas.95.11.6212;
MEDLINE-9826335; PubMed=9600944; DOI=10.1073/pnas.95.11.6212;
MEDLINE-9826335; PubMed=9600944; DOI=10.1073/pnas.95.11.6212;
Rey M., Ohno S.A., Pintor-Toro J.A., Jose A., ilobell A., Benitez T.;
"Unexpected homology between inducible cell wall protein of
filamentous fungl and BR3 salivary protein of the insect Chironomus.";
proc. Natl. Acad. Sci. U.S.A. 95:6212-6216(1998).
GO; GO:0005578; C:extracellular matrix (sensu Metazoa); IEA.
GO; GO:000578; F:caclotum ion binding; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0007275; P:development; IEA.
GO; GO:0007275; P:neurogenesis; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Spodoptera frugiperda (Fall armyworm).

Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia; Noctuoidea;
Noctuidae; Amphipyrinae; Spodoptera.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             508 SCPDSÓYWDGSKCACPYGTVWDGKHCNQDCGKDAHFDSNQKKCVCNKQGEVYDSKSKTCS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                568 CPDGQYWDGS-----KCACPYGKVWDGKQCVP-----NCGKDASYDS-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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A Cieplik M., Klenk H.;
A Cieplik M., Klenk H.;
Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases.
I. Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases.
EMBL; Z68888; CAA93116.1; -; mRNA.
PIR; T43251; T43251.
R HSSP; P23188; 1P8J.
R GO; GO:0006239; F:ATP binding; IEA.
R GO; GO:0008239; F:peptidase activity; IEA.
R GO; GO:0004289; F:subtilase activity; IEA.
R GO; GO:00044714; F:transmembrane receptor protein tyrosine kin. .;
R GO; GO:0007169; P:protein amino acid phosphorylation; IEA.
R GO; GO:0007169; P:protein amino acid phosphorylation; IEA.
R GO; GO:0007169; P:transmembrane receptor protein tyrosine kin. .;
R InterPro; IPR006212; Purin_repeat.
R InterPro; IPR006212; Purin_repeat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      62;
Trichoderma harzianum (Hypocrea lixii).
Bukaryota, Fungi, Ascomycota, Pezizomycotina, Sordariomycetes,
Hypocreomycetidae, Hypocreales, Hypocreaceae, Hypocrea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 2; Length 704;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      37; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  704 AA; 77925 MW; 63414BDDEC365EBC CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-NAR-2004 (TrEMBLrel. 26, Last annotation update)
Endoprotease FURIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Match 12.3%; Score 99; DB 2. Local Similarity 22.1%; Pred. No. 0.63; les 32; Conservative 14; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT; 1299 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             92 LLSVSNMPCSSLPRVL-----CTC 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     --KQNKCVCKNIGQVFDTKSLFCSC 627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro, IPR006209; EGF_11ke.
PROSITE; PS01186; EGF_2; 1.
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Q26489;
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Buarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE-Fetal lung;
MEDLINE=99087326; PubMed=9872321; DOI=10.1038/25387;
MEDLINE=99087326; PubMed=9872321; DOI=10.1038/25387;
Ditti R.M., Marsters S.A., Lawrence D.A., Roy M., Kischkel F.C.,
Dowd P., Huang A., Donahue C.J., Sherwood S.W., Baldwin D.T.,
Godowski P.J., Wood W.I., Gurney A.L., Hillan K.J., Cohen R.L.,
Goddard A.D., Botstein D., Ashkenazi A.,
"Genomic amplification of a decoy receptor for Fas ligand in lung and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Tumor necrosis factor receptor superfamily member 6B precursor (Decoy receptor for Fas ligand) (Decoy receptor 3) (DcR3) (M68).
Name=TNFRSF6B; Synonyms=DCR3, TR6; ORFNames=UNQ186/PRO212;
                                                                                                                                                                                                                                                                                                                                             Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Prostate;
MEDLINE=99253915; PubMed=10318773; DOI=10.1074/jbc.274.20.13733;
Yu K.-Y., Kwon B., Ni J., Zhai Y., Ebner R., Kwon B.S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 96; DB 2; Length 74;
Pred. No. 0.12;
7; Mismatches 14; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (FEB-2005) to the EMBL/GenBank/DDBJ databases.
EMBL; AL646093; CAI25894.1; -; Genomic_DNA.
GO; GO:0004872; F:receptor activity; IEA.
                                                                                                                                                                                                                          01-FEB-2005 (TrEMBLrel. 29, Created)
01-FEB-2005 (TrEMBLrel. 29, Last sequence update)
101-FEB-2005 (TrEMBLrel. 29, Last annotation update)
101-FEB-2005 (TrEMBLrel. 29) Last annotation update)
11mor necrosis factor receptor superfamily, member 13b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           74 AA; 8337 MW; DA8A3B06FE191A26 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   74 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                300 AA.
                                                                                                                                                                                                                                                                                                                           Name=Tnfrsf13b; ORFNames=RP23-5512.2-002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                           894 MRCP-VGCASCTSAFCLSC
                                                         101 SSLPRVLCTCCSR--CLEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12.0%;
                                                                                                                                                                                QSSU84 MOUSE PRELIMINARY,
QSSU84;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                Muridae, Murinae, Mus.
NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE
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les 15; Conserv
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NON TER
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                                                                                                                                                                                                                                                                                                                           781 LQQCPDGYWEDSEASVCRPCAAHCATCSERADGC-TSCEHHLVLHDGTCMA---SCPPS- 835
                                                                                                                                                                                                                                                                                                                                                                                    781 LOQCPDGYYEDSESSVCRPCAAHCATCSDRADSCTSCEHHLVLHDGTCLA---SCPAS-- 835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60 WPHSQVAEERMA------GGDVQCGTSYPSTFLLWPHCLLSV-----SNMPC 100
                                                                                                                                                                                                                                                                                                                                                                59 LWPHSQVAEERMA-----SGDVQCGTSYPSTFLLMPHCLLSV-----SNMP 99
                                                                                                                                                                                                                                                                                     1 MRSCPEEQYWAALLGICMFCKAICNHOSORT--CAASCGEFWDLSPGDSVITPNACPOST 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wang L., Yang G., Wu X.;

"Cloning, expression, and characterization of recombinant Th5 cells
"Cloning, expression, and characterization of recombinant Th5 cells
"Turin-like convertaes from baculovirus-infected insect cells.";

Submitted (FEB-2004) to the BMBL/GanBank/DDBJ databases.

BMBL; AY55267; AAT37510.1; -; mRNA.

BMBL; AY55267; AAT37510.1; -; mRNA.

GO; GO:0006239; F:peptidase activity; IEA.

GO; GO:0006299; F:subtilase activity; IEA.

R HOFPO; IRR000209; Pept S8 S53.

R InterPro; IRR000209; Pept S8 S53.

R InterPro; IRR000209; Pept S8 S53.

R Pfam; PR00023; Peptidase S8; 1.

R Pfam; PR00031; Peptidase S8; 1.

R ProDom; PR000717; PreprotnconvertsP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia; Noctuoidea;
Noctuidae; Plusinae; Trichoplusia.
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                                                                                                                                                                                                                                                 30;
                                                                                                                                                                                                          12.2%; Score 98; DB 2; Length 1299; 25.9%; Pred. No. 1.5; tive 15; Mismatches 58; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12.1%; Score 97; DB 2; Length 949; 25.9%; Pred. No. 1.3; ive 13; Mismatches 60; Indels
                                                                                                                                                                      1299 AA; 142020 MW; 4C3799C7BBC572AB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              32C4731E491F968C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-MAY-2005 (TrEMBLrel. 30, Created)
10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             949 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PROSITE; PS00136; SUBTILASE_ASP; UNKNOWN_1.
PROSITE; PS00137; SUBTILASE_HIS; 1.
PROSITE; PS00138; SUBTILASE_SER; 1.
SEQUENCE 949 AA; 104439 MW; 32C4731E491
                                                                                         PROSITE; PS00136; SUBTILASE ASP; UNKNOWN 1.
PROSITE; PS00137; SUBTILASE HIS; 1.
PROSITE; PS00138; SUBTILASE SER; 1.
   IPR002884; PrprotnconvertsP
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Trichoplusia ni (Cabbage looper).
                                                                                                                                                                                                                                                                                                                                                                                                                                          CSSLPRVLCTCCSR-CLEC 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CMRCPVGCSTCTSAFCLSC 911
                   Pfam; PF01483; P_proprotein; 1.
Pfam; PF00002; Peptidase SB; 1.
PRINTS; PR00723; SUBTILISIN.
SMART; SM00261; PU; 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 25.9% tes 36; Conservative
                                                                                                                                                                                                      Query Match
Best Local Similarity 25.9°
Matches 36; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QSDNW1_TRINI PRELIMINARY;
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                                                                                                                                                  Protease.
SEQUENCE
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Matches
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Gaps

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villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Schein Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E., Jones S.J.M., Marra M.A., "Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                    Detected in adult stomach, spinal cord, lymph node, trachea, spleen, colon and lung. Highly expressed in several primary tumors from colon, stomach, rectum, esophagus and in SW480 colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SFRANT; SWOODS, MAN, WERL 1, 1.
PROSITE; PSOODS0; TNFR NGFR 2, 2.
Apoptosis; Direct protein sequencing; Glycoprotein; Receptor; Repeat;
                                                                                                                              Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
-1- FUNCTION: Decoy receptor for the cytotoxic ligands TNFS14/LIGHT and TNFSF6/FASL. Protects against apoptosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          . .) (Potential).
                                                                                                                                                                                       043557:TWESF14; NDExp=1; Intact=EBI-524171, EBI-524131;
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Detected in fetal lung, brain and liver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tumor necrosis factor receptor superfamily member 6B. TNFR-Cys 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        F90AEE33718449AF CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TNFR-Cys 2.
TNFR-Cys 3.
TNFR-Cys 4.
N-linked (GlCNAc...
By similarity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    mRNA.
mRNA.
mRNA.
Genomic_DNA.
mRNA.
mRNA.
                                                                                                                                                                                                                                                                                            SIMILARITY: Contains 4 TNFR-Cys repeats.
                                                                                                                                                                                                                                                                                                                                                                                                                                           Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MIM; 603361; -. Greoluble fraction; TAS. GO; GO:0004872; Fraceptor activity; TAS. GO; GO:0006915; Praction-apoptosis; TAS. InterPro; IPR001368; TNFR. C6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENSG00000026036; Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL, AF217796, AAF35244.1;
EMBL, AF217793, AAF33685.1;
EMBL, AR3382.1;
EMBL, AY358279, AAQ88646.1;
EMBL, AL121845, CAC03668.1;
EMBL, BCO17065, AAH17065.1;
EMBL, BCO34349, AAH1705.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        32680 MW;
                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; AF104419; AAD03056.1;
EMBL; AF134240; AAD29688.1;
                                                                                                                  and mouse cDNA sequences.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HGNC; HGNC:11921; TNFRSF6B.
H-InvDB; HIX0016007; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         c6: 2.
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1150
1193
173
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70
1113
1113
1150
1168
                                                                                                                                                                                                                                                                             carcinoma cells.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             014763; 1DU3.
                                                                                                                                                                              -!- INTERACTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          095407
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SIGNAL
CHAIN
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REPEAT
REPEAT
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EMBL;
HSSP;
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Length 300;

ij

DB

11.8%; Score 95;

Query Match

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TWRIB MOUSE STANDARD; PRT; 474 AA.
P25115; O88734; P97893;
01-MAY-1992 (Rel. 22, Last sequence update)
01-MAY-1992 (Rel. 22, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
10-MAY-2005 (Rel. 47, Last annotation update)
10-MAY-2015 (Rel. 47, Last annotation update)
11-MAY-1992 (Rel. 47, Last sequence update)
11-MAY-1992 (Rel. 47, Last se
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Murofdea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE-98414512; PubMed-9740674; DOI=10.1006/geno.1998.5407; Hurle B., Segade F., Rodriguez R., Ramos S.S., Lazo P.S.; "The mouse tumor necrosis factor receptor 2 gene: genomic structure and characterization of the two transcripts.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kissonerghis M., Fellowes R., Feldmann M., Chernajovsky Y.;
Submitted (MAY-1995) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: Receptor with high affinity for INFSPZ/TWP-alpha and
approximately 5-fold lower affinity for homotrimeric
TNFSFL/lymphotoxin-alpha. The TRAFL/TRAFZ complex recruits the
apoptotic suppressors BIRC2 and BIRC3 to INFRSFIB/TNFRZ (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE.
MEDLINE=211878B6; PubMed=1849278;
Lewis M. Tartsqlia L.A., Lee A., Bennett G.L., Rice G.C., Wong
Chen E.Y., Goeddel D.V.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Cloning and expression of cDNAs for two distinct murine tumo necrosis factor receptors demonstrate one receptor is species
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Davis T., Brannan C.I.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE.

WICLEOTIDE SIGNER.

BROILINES-12146168; Pubmed=1645445;

Goodwin R.G., Jankerson D., Jerzy R., Davis T., Brannan C.I.

Copeland N.G., Jenkins N.A., Smith C.A.;

Molecular cloning and expression of the type 1 and type 2 receptors for tumor necrosis factor.";

Molecular for tumor necrosis factor.";

Molecular 11:3020-3026(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Jacob C.O., Liu J.;
Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 similarity).
--- SUBUNIT: Binds to TRAF2 (By similarity).
--- SUBCILULA: BINGS LOCATION: Type I membrane protein.
--- SIMILARITY: Contains 4 TNFR-Cys repeats.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Proc. Natl. Acad. Sci. U.S.A. 88:2830-2834 (1991).
                                                                                               CLECMLSIIFPQLP-PTQLSGL----GPN 137
                                                                                                                                         193 TLSAIPRTLYVSQPEPTRSQPLDQEPGPS 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEOTIDE SEQUENCE OF 1-22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE OF 1-26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Genomics 52:79-98(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus (Mouse)
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                                                                                                  114
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                                                                                                                                                             73 CPPRHYTÓFW-NYLERCRYCNVLCGEREEEARACHÁTHNRACRCRTGFFAHAGFCLEHAS 131
                                                                                                                                                                                                                                                                                   ---OCOPCPPGTFSASSSSSEQCOPHRNC 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     62 HSQVAEERMAGGDVQCGTSYPSTF-----LLWPHCLLSVSNMPCSSLPRVLCTCCSR 113
                                                                                               CGEFWD 41
                                                                                                                                                                                                                           42 LSPGDSVITPNACPQSTLWPHSQVAEERMAGGDVQCGTSYPSTF-----LLWPH--- 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            . .; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus (Mouse).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muridae; Murinae; Mus.
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                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Powell E.E., Wicker L.S., Peterson L.B., Todd J.A., "Amino acid variation in the tumor Necrosis factor receptor 2 is linked to autoimmune diabetes in NOD mice."; Genomics 0:0-0(0).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIINE=95178848; PubMed=7873884;
Powell B.E., Wicker L.S., Peterson L.B., Todd J.A.;
"Allelic variation of the type 2 tumor necrosis factor receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GO; GO:0016021; C:integral to membrane; IEA.
GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0005031; F:tumor necrosis factor receptor activity; IEA.
GO; GO:0019221; P:cytokine and chemokine mediated signaling p.
InterPro; IPR01136; TNFrecept_2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             32;
                                       52,
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                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    459 AA; 48686 MW; 6C51D2CF1C4626DF CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Tumour necrosis factor receptor 2 protein (Fragment)
Name=Tnfrsflb;
                                    46;
                                                                                                  CPEE---QYWAALLGTCMFCKAICNHQSQ--RTCAAS-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             459 AA.
      Pred. No. 0.63;
9; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                         91 -CLLSVSNMPCSSLPRVLCTCCS 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                      132 CPPGAGVIAPGTPSONT------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mamm. Genome 5:726-727(1994).
BENEL; X76401; CAA53981.1; -; mRNA.
PIR; I48854; I48854.
HSSP; P19438; INCF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE; PS00652; TNFR NGFR 1; 2.
PROSITE; PS50050; TNFR NGFR 2; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pfam; PF00020; TNFR C6; 2.
PIRSF; PIRSF001968; TNFR 2; 1.
      Similarity 25.2%;
36, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MGI; MGI:1314883; Infrsflb.
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Best Local Similarity 24.29
Matches 36; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27_MOUSE
Q62327_MOUSE PRELIMINARY;
Q62327;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SM00208; TNFR; 4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Receptor.
NON_TER
SEQUENCE
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             Local
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G.H.

murine

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208 TLSAIPRTLYVSQPEPTRSQPLDQEPGPS 236
                                                                                                                                                                                                                         NCBI_TaxID=10090;
                                 RESULT 13
                                                       EMBL; X14620; CAA74969.1; JGINED; Genomic_DNA.
EMBL; X14621; CAA74969.1; JGINED; Genomic_DNA.
EMBL; X14622; CAA74969.1; JGINED; Genomic_DNA.
EMBL; X14623; CAA74969.1; JGINED; Genomic_DNA.
EMBL; X87128; CAA60618.1; -; Genomic_DNA.
EMBL; X87128; CAA60618.1; -; Genomic_DNA.
EMBL; X87128; CAA60618.1; -; Genomic_DNA.
EMBL; X87128; TAE6000002859; Mus musculus.
EMBL; X87128; CAA74969.1; JAE7619.
EMBL; X87134883; TAE7811.
EMBL; X871366; Picell death; IMP.
GO; GO:0008219; Picell death; IMP.
GO; GO:0008219; Picell death; IMP.
GO; GO:0008219; Picell surface receptor linked signal transdu. ..; IMP.
EG; GO:0006554; Piinflammatory response; IMP.
EMPL; EMBRY; EMBRO11368; TAFR.2; 1.
EMBL; EMBRY; EMBRY 2; 1.
EMBL; EMBRY; EMBRY 3; 1.
EMBL; EMBL; EMBRY 3; 1.
EMBL; EMBL; EMBRY 3; 1.
EMBL; EMBL; EMBRY; 4.
EMBL; EMBRY; EMBRY; 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      62 HSQVAEERMAGGDVQCGTSYPSTF-----LLWPHCLLSVSNMPCSSLPRVLCTCCSR 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   148 GFGVASSRAPNGNVLCKACAPGTFSDTTSSTDVCRPHRICSILAIPGNASTDAVCAPESP 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16 TCMFCKA-----ICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQ----STLWP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                        Cycoplasmic (Potential).
TNFR-Cys 1.
TNFR-Cys 2.
TNFR-Cys 3.
TNFR-Cys 3.
TNFR-Cys 4.
TNFR-Cys 4.
N-linked (GLNAC. . .) (Potential).
N-linked (GLNAC. . .) (Potential).
N-linked (GLNAC. . .) (Potential).
By similarity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32,
                                                                                                                                                                                                                                                                                                                                Tumor necrosis factor receptor superfamily member 1B. Extracellular (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11.7%; Score 94; DB 1; Length 474;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   64; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       462EAE398C4D6563 CRC64;
                                                                                                                                                                                                                                                                                  PROSITE; PS00652; TNPR NGFR 1; 2.
PROSITE; PS50050; TNFR NGFR 2; 3.
Glycoprotein; Receptor; Repeat; Signal; Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 T -> S (in Ref. 3).
I -> T (in Ref. 3).
I -> F (in Ref. 3).
S (in Ref. 3).
F -> S (in Ref. 3).
C -> Y (in Ref. 3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24.2%; Pred. No. 1.3; ive 17; Mismatches
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                     Genomic DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         50320 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      36; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                              474 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           23
289
289
39
39
78
120
165
69
                     Y14619;
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TRANSMEM
TOPO DOM
REPEAT
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CONFLICT
SEQUENCE
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CERRAINE-CSTBL/64; TISSUB-Liver, and Lung;

NUCLECIDES SEQUENCE.

A Kawai J., Shinaqawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,

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Mammalia, Butheria, Buarchontoglires, Glires; Rodentia, Sciurognathi;
Muridae, Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=C57BL/61; TISSUE=Liver, and Lung;
MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
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Arakawa T., Bono H., Carninci P., Pukuda S., Pukudishi Y., Furuno M.,
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M. Hanagaki T., Hara A., Itoh M., Izawa M., Kasukawa T., Kato H.,
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BMBL; AK004944; BAB23510; -; mRNA.
RGJ; GC:0005612; C:extracellular space; TAS.
GO; GO:0016021; C:integral to membrane; TAS.
GO; GO:000823; P:cell proliferation; TAS.
GO; GO:0007166; P:cell proliferation; TAS.
RGJ; GC:0006544; P:inflammatory response; IMP.
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Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C., Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L., Yang Y., Zavidan M., Zhu Y., Zimer A., Carninci P., Hayatau N., Hirozane-Kishikawa T., Komno H., Nakamura M., Sakazume N., Sato K., Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S., Hara A., Hashizume W., Imocani K., Ishii Y., Itoh M., Kagawa I., Mayazaki A., Saaki K., Saaki D., Shibata K., Shinagawa A., Yashino M., Waterston R., Lander E.S., Rogers J., Birney E., Hayashizaki Y., Waterston R., Lander E.S., Rogers J., Birney E., Hayashizaki Y., Waterston R., Lander E.S., Rogers J., Burney E., Hayashizaki Y., Shinagawa A., Collemon M., Kalama J., Materston R., Lander E.S., Rogers J., Burney E., Hayashizaki Y., Waterston R., Lander B.S., Rogers J., Mature 420:563-573(2002).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600; Shibbata K., Itoh M., Alzawa K., Nagaoka S., Saakin N., Carninci P., Shibata K., Itoh M., Alzawa K., Nagaoka S., Saakin N., Carninci P., Sumbata K., Itoh M., Alzawa K., Nagaoka S., Saakin N., Carninci P., Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A., Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kabhiwagi K., Fujiwake S., Inoue K., Togawa W., Izawa M., Ohara E., Watshiki M., Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J., Rishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J., Rishika integrated sequence analysis (RISA) system-384-format Genome Res. 10:1757-1771(2000).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         474 AA; 50319 MW; 462EAE398C4D6563 CRC64;
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Matches 36; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE
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4865 PEACPCTRISLPWGLTLPLEEQAQELPSG------TVLTWNCTHCTCQGGVFTCS 4913
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                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11.6%; Score 93; DB 2; Length 5141; ilarity 26.0%; Pred. No. 18; Conservative 11; Mismatches 43; Indels 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       550644 MW; 1772AE67F02CA5E3 CRC64;
                                                                                                                                                                                                                                                           the EMBL/GenBank/DDBJ databases.
                                                                                                                 Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTCK 2; 1.
EGF 2; UNKNOWN 2.
FASEC 3; 1.
GLYCO_HORMONE_BETA_1; UNKNOWN_2.
                                                                                5141 AA.
             208 TLSAIPRTLYVSQPEPTRSQPLDQEPGPS 236
114 CLECMLSIIFPQLP-PTQLSGL----GPN 137
                                                                                                                                                                                                                                                                                                                                           PR000421; FAS8 C.
PR001545; Gly_hormoneB.
PR002172; LDL_receptor_A.
PR002919; Prot_Inh_CR_TIL.
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PROSITE, PS50184; VWFC_2; 2.
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                                                                             PRT;
                                                                                                      Created)
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                                                                                                                                                                                                                                                                                                       InterPro; IPR006207; Cys knot_C.
InterPro; IPR006209; EGF_like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  PP00054; FS F8 type_C; 1.
PP00057; Ldl_recept_a; 10;
PP01080; T1L; 12.
PP00090; TSP_1; 24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROSITE; PS01209; LDLRA-1; 8.
PROSITE; PS50068; LDLRA-2; 10.
PROSITE; PS50092; TSP1; 24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PR00261; LDLRECEPTOR.
400192; LDLa; 10.
400209; TSP1; 25.
                                                                                                                                                                                                                                                          (MAR-2004) to the 9845; CAF33425.1;
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SM00215; VWC_out; 9.
SM00216; VWD; 3.
                                                                                                                                                                                                  Muridae, Murinae, Rattus
                                                                          Q700KO RAT PRELIMINARY;
Q700KO;
                                                                                                                                                               Rattus norvegicus (Rat).
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Best Local Similarity
Conserve
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                                                                                                                                                                                                                                                                      EMBL; AJ629845; CAF.
HSSP; P01130; 1AJJ.
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PROSITE; PS00261;
PROSITE; PS01209;
                                                                                                                                                   Name=sco-spondin;
                                                                                                                                                                                                               NCBI TaxID=10116;
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                                                                                                                                         SCO-spondin
                                                                                                                                                                                                                                                Meiniel O.;
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                                                                                                                                                                                                                                                                                                                                                                                              InterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                               nterPro,
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SMART;
SMART;
SMART;
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Q700K0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 CPEEQYWAALLGTC-MFCK-----AICNHOSORICAASCGEFWDLSPGDS--VITPNAC 54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29 CAPNQVWNSCGTACPLNCQNFRNPPDVCILSCQRGC--FCKEPYIFQNGDSGPCVLPSQC 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           44; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Xenopus laevis (African clawed frog).
Bukaryots, Metazos, Chordata, Craniata, Vertebrata, Buteleostomi, Amphibia, Batrachia, Anura, Mesobatrachia, Pipoidea; Pipidae; Xenopodinae; Xenopus, Xenopus, Xenopus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
11.2%; Score 90; DB 2; Length 286;
Best Local Similarity 25.6%; Pred. No. 1.8;
Matches 40; Conservative 13; Mismatches 59; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Wardle F.C., Sive H.L.;
Wardle F.C., Sive H.L.;
Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AF465788; AAO15689.1; -; mRNA.
HSSP; P5662; ICCV.
InterPro; IFRNO02919; Prot_Inh_CR_TIL.
Fign; PF01856; TIL!; 4.
SEQUENCE 286 AA; 31037 MW; 9C2DAB2E975DCE73 CRC64;
                                                                                                                                                                                                                                                                                                        QBAXCO XENLA PRELIMINARY; PRT; 286 AA.
QBAXCO;
01-MAR-2003 (TrEMBLrel. 23, Created)
01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Riddle 4.
Name-Rdd4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            127 RGCFCKEPYIFQNGTSGPCVLPSQCPPSQVESCAPN 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        113 RCLECMLSIIF -----PQLPPTQLSGLGPN 137
                                                        + 114 H------TDCQEC------PPGEILQLG 4929
102 SLPRVLCTCCSRCLECMLSIIFPQLPPTQLSGLG 135
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08AXCO XENI
10 08AXCO
AC 08AXC
AC 08AXC
AC 01-MA
DT 01-M
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ò
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Search completed: December 20, 2005, 10:42:47 Job time : 231 secs

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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                  Copyright
```

OM protein - protein search, using sw model

December 20, 2005, 10:33:34 Run on:

; Search time 38 Seconds (without alignments) 359.547 Million cell updates/sec

US-10-618-797-2

Title:

803 1 MRSCPERQYWAALLGTCMPC......PPQLPPTQLSGLGPNIGGLL 142 Perfect score:

Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 segs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 80:\* Database

pirl:\* pir2:\* pir3:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

					SOMMERTES	
Result		Query		6	f	-
OZ	Score	March	rength	3	1D	Description
-	96	12.2	1299	0	T43251	furin (EC 3.4.21.7
7	94	11.7	459	~	148854	gene murine tumour
3	94	-	474	N	B38634	tumor necrosis fac
4	85		589	N	C38128	epithelin/granulin
D.	84.5	-	1680	N	A43434	furin (EC 3.4.21.7
9	83.5	10.4	1548	N	S34583	serine proteinase
7	81	10.1	250	ч	A49053	CD27 antigen precu
80	80.5	10.0	593	Н	GYHU	granulin precursor
o	80	10.0	349	N	T43457	hypothetical prote
10	79.5	6.6	1700	7	S08167	Balbiani ring 3 pr
11	78.5	9.6	1373	~	JE0095	
12	77.5	7.6	2219	N	T27684	hypothetical prote
13	77	9.6	981	~	851604	receptor-like tyro
14	77	9.6	1005	~	S49015	receptor tyrosine
15	76.5	•	355	~	E64445	polyferredoxin 4x2
16	76.5	9.5	589	~	B38128	epithelin/granulin
17	75.5	9.4	732	Н	MNXRW4	nonstructural prot
18	74.5	9.3	591	~	148141	acrogranin - guine
19	74.5	9.3	5376	~	T42215	1
20	73.5	9.5	810	~	T10756	Nel-homolog protei
21	73.5	9.5	1737	~	T00209	MEGF8 protein - hu
22	73.5	9.5	2871	~	A55624	fibrillin-1 precur
23	73	9.1	230	7	A38346	ultra-high-sulfur
24	73	9.1	260	н	A46517	CD27 antigen precu
25	73	9.1	337	N	147079	follistatin - shee
56	73	9.1	344	~	I45894	follistatin - bovi
27	73	9.1	991	~	I78843	receptor protein-t
28	72.5	0.6	265	N	T33695	hypothetical prote
	72	0.	546	N	T46718	С

hypothetical prote probable polv(A)-e	alpha tectorin - m	hypothetical prote	hypothetical prote	hypothetical prote	hypothetical prote	nel protein - chic	ultra-high-sulfur	hypothetical prote	hypothetical prote	hypothetical prote	fibrillin 1 precur	zinc finger protei	hypothetical prote	hypothetical prote
T34288 T11614	T30197	T27317	T47183	T25050	T04748	JP0076	B38346	T19130	T34264	T21064	A47221	852306	B86299	T30136
~ ~	~	N	N	N	N	~	~	~	N	~	N	N	N	N
1827	2155	200	264	417	532	835	223	1642	2195	2761	3002	480	518	654
0.0	8.9	8.8	8.8	8.8	8.8	8.8	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
72,71.5	71.5	71	70.5	70.5	70.5	70.5	70	70	70	70	70	69.5	69.5	69.5
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furin (EC 3.4.21.75) - fall armyworm

NiAlternate names: paired basic amino acid cleaving enzyme; proprotein convertase, serine c. Species: Spodoptera frugiperda (fall armyworm)
C.Species: Spodoptera frugiperda (fall armyworm)
C.Species: Spodoptera frugiperda (fall armyworm)
C.Accession: T43251
R.Cieplik, M., Klenk, H.
Submitted to the EMBL Data Library, January 1996
A.Description: Cloning and functional characterization of FURIN from Spodoptera frugiperc A.Reference number: Z22368
A.Description: T43251
A.Reference number: Z22368
A.Status: preliminary, translated from GB/EMBL/DDBJ
A.Residues: 1-1299
A.Status: preliminary, translated from GB/EMBL/DDBJ
A.Residues: 1-1299 CIES
A.Status: Clone Sfurin 6; ovary
C.Punction:
C.Punction: clone Sfurin 6; ovary
C.Punction: responsible for the endoproteolytic processing of proproteins with specif C.Keywords: hydrolase; serine proteinase

Ë 58; Indels 30; Gaps Query Match 12.2%; Score 98; DB 2; Length 1299; Best Local Similarity 25.9%; Pred. No. 0.44; Matches 36; Conservative 15; Mismatches 58; Indels 1 MRSCPEEQYWAALLGTCMFCKAICHHQSQRT--CAASCGEFWDLSPGDSVITPNACPQST ŝ

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g

100 CSSLPRVLCTCCSR-CLEC 117 ઠે

893 CMRCPVGCSTCTSAFCLSC 911

# RESULT 2 148854

Green murine tumour necrosis factor receptor 2 protein - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Accession: 148654
R;Powell, E.E.; Wicker, L.S.; Peterson, L.B.; Todd, J.A.
Mamm. Genome 5, 726, 727, 1398
A;Title: Allelic variation of the type 2 tumor necrosis factor receptor gene. A;Reference number: 148854
M;Accession: 148854
A;Accession: 148854
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-459 <RES>

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A; Molecule type: mRNA
A; Residues: 1-589 < PLO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C; Superfamily: granulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     preliminary
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A; Status: prelimina
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Accession: C38128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Accession: S32503
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A43434
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                                                          g
C;Superfamily: tumor necrosis factor receptor type 2 (INFR2); NGF receptor repeat homology F151-188/Domain: NGF receptor repeat homology <NGF>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Accession: 554816
A; Status: preliminary
A; Molecule type: DNA
A; Molecule: 1-22 < KIS>
A; Cross-references: UNIPARC; UPI000016CF95; EMBL:X87128; NID:9809043; PIDN:CAA60618.1; PI
C; Superfamily: tumor necrosis factor receptor type 2 (TNFR2); NGF receptor repeat homology controls: cytokine receptor; transmembrane protein
F; 1-22/Domain: signal sequence #status predicted <SIG>F; 23-474/Product: tumor necrosis factor receptor type 2 #status predicted <MAT>
F; 30-474/Domain: NGF receptor repeat homology <NG1>
F; 30-120/Domain: NGF receptor repeat homology <NG2>
F; 30-100/Domain: NGF receptor repeat homology <NG3>
F; 10-100/Domain: NGF receptor repeat homology <NG3>
F; 10-100/F; 10-100/F; 10-100/F; 10-100/F; 10-100/F; 10-100/F; 10-100/F; 10-100/F; 10-1000/F; 10-100/F; 10-100/F; 10-100/F; 10-100/F; 10-100/F; 10-100/F; 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-474 < LEW>
A; Residues: 1-474 < LEW>
A; Residues: 1-474 < LEW>
A; Coss. references: UNIPROT: P25119; UNIPARC: UPI0000003E93; GB: M60469; NID: 9199827; PIDN: R; Goodwin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brannan, C.I.; Copeland, N.G.; Jenk Mol. Cell. Biol. 11, 3020-3026, 1991
A; Title: Molecular cloning and expression of the type 1 and type 2 murine receptors for A; Reference number: A40254; MUID: 91246168; PMID: 1645445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A,Cross-references: UNIPARC:UPI0000013593; GB:M60469; NID:9199827; PIDN:AAA39752.1; PID: R,Kissonerghis, M.; Fellowes, R.; Feldmann, M.; Chernajovsky, Y. submitted to the EMBL Data Library, May 1995
A,Description: Characterization of the promoter region of the murine p75-TNF receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tumor necrosis factor receptor type 2 precursor - mouse
C;Species: Mus musculus (house mouse)
C;Dates 30-Jun-1992 Haequence_revision 30-Jun-1992 #text_change 09-Jul-2004
C;Accession: B38634; A40524; S54816
R;Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice, G.C.; Wong, G.H.W.; Chen, E Proc. Natl. Acad. Sci. U.S.A. 88, 2830-2834, 1901
Proc. Natl. Acad. Sci. U.S.A. 88, 2830-2834, 1901
A;Title: Cloning and expression of cDNAs for two distinct murine tumor necrosis factor
A;Reference number: A38634; MUID:91187885; PMID:1849278
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             62 HSOVAEERMAGGDVQCGTSYPSTF-----LLWPHCLLSVSNMPCSSLPRVLCTCCSR 113
                                                                                                                                                                                                                                                                                                                                                                                                                                              78 TCLSCSSSCSTDQVETRACTKQQNRVCACEAGRYCALKTHS-----GSCRQCMRLSKCGP 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62 HSQVAEERMAGGDVQCGTSYPSTF-----LLWPHCLLSVSNMPCSSLPRVLCTCCSR 113
                                                                                                                                                                                                                                                                                                                                                                      61
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                                                                                                                                                                                                                                                                                                                                                             16 TCMFCKA-----ICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQ----STLWP
                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                            32;
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t; Pred. No. 0.42;
17; Mismatches 64; Indels
                                                                                                                                                                                            DB 2; Length 459;
                                                                                                                                                                                                                                                                            64; Indels
                                                                                                                                                                                       Query Match
11.7%; Score 94; DB 3
Best Local Similarity 24.2%; Pred. No. 0.41.
Matches 36; Conservative 17; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  193 TLSAIPRTLYVSQPEPTRSQPLDQEPGPS 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11.7%;
24.2%;
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Matches 36; Conserv
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A;Molecule type: mRNA
A;Residues: 1-474 <GOO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Accession: B38634
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NiAlternate names: acrogramin, PC-cell-derived growth factor
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Dacession: C38128; S32503; I49468; A46705
R;Plowman, G.D.; Green, J.M.; Neubauer, M.G.; Buckley, S.D.; McDonald, V.L.; Todaro, G.J.
J.Bol., Cham. 267, 13073-13078, 1992
A;Fille: The epithelin precursor encodes two proteins with opposing activities on epithell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: UNIPROT.P28798; UNIPARC:UPI0000142953; GB:X62321; NID:g50851; PIDN:CF<sup>1</sup> R;Baba, T.; Nemoto, H.; Watanabe, K.; Arai, Y.; Gerton, G.L. FEBS Lett. 322, 89-94, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: DNA
A;Residues: 18-349,'L',351-589 <BAB>
A;Cross-references: UNIPARC:UP10000177C83
R;Baba, T.; Hoff, H.B.
Mol. Reported: Day of the precusor of the grown A;Title: Acrogramin, an acrosomal cysteine-rich glycoprotein, is the precusor of the grown A;Reference number: 148141; MUID:93228994; PMID:8471244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Residues: 1-250,'L',252-253,'V',255-349,'L',351-401,'SA',404-589 <RES>
A;Cross-references: UNIPARC:UPI00016CBE7; GB:M86736; NID:g191766; PIDN:AAA37191.1; PID:g
R;Zhou, J; Gao, G; Crabb, J.W.; Serrero, G.
J. Biol. Chem. 268, 10863-10869, 1993
A;Pitle: Purification of an autocrine growth factor homologous with mouse epithelin preci-
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A;Residues: 18-19,'X',21-25,'X',27-29,'XX',32;'XXX',119-127;152-154,'DXK',158-161,'X',16:
A;Cross-references: UNIPARC:UP10000177C84; UNIPARC:UP10000177C85; UNIPARC:UP10000177C86;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A,Title: Exon/intron organization of the gene encoding the mouse epithelin/granulin precomplerence number: S32503; MUID:93245991; PMID:8482392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            287 SCPEGYTCCRINTGAWGCCPFAKAVCCEDHIHCCPAGFOCHTEKGTCEMGILQVPWMKKV 346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     347 IAPRRLPDPQILKSDTPCDDFTRCPTNNTCCKLNSGDWGCCPIPEAVCCSDNQHCCPQGF 406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ----GDVQCG--TSYPSTFLLWPHCLLSV-SNM 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -----WDLSPGDSVI ----TPNACPQS-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              407 TCLAQGYCQKGDTMVAGLEKIPARQTTPLQIGDIGCDQHTSCP----VGQTCCPSLKGSW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  67; Indels 102;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         furin (BC 3.4.21.75) 2 - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Accession: 149468
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
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                                         236
208 TLSAIPRILYVSQPEPTRSQPLDQEPGPS
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                                                                                                                                                                                                                                           epithelin/granulin precursor - mouse
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Rigravestein, L.A.; Blom, B.; Nolten, L.A.; de Vries, E.; van der Horst, G.; Ossendorp, E. Bur. J. Immunol. 23, 943-950, 1993
A;Title: Cloning and expression of murine CD27: comparison with 4-1BB, another lymphocyte A;Reference number: A49053; MUID:93209296; PMID:8384562
A;Accession: A49053
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Nicontains: granulin A; granulin B; granulin C; granulin D; granulin E; granulin F; granulin Sispecies: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 30-Sep-1992 #sequence_revision 03-May-1996 #text_change 31-Dec-2004
C; Accession: 0C1284; A38128; A38118; A36698; B36698; C36698; D36698; A56873
R; Bhandari, V.; Bareman, A.
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A;Cross-references: UNIPROT:P28799; UNIPROT:Q9UCHO; UNIPARC:UPI00000015E0
A;Cross-references: UNIPROT:P28799; UNIPROT:Q9UCHO; UNIPARC:UPI00000015E0
A;Plowman, G.D.; Green, J.M.; Neubauer, M.G.; Buckley, S.D.; McDonald, V.L.; Todaro, G.J.
J. Biol. Chem. 267, 13073-13078, 1992
A;Title: The epithelin precursor encodes two proteins with opposing activities on epithel A;Reference number: A38128; MUID:92317004; PMID:1618805
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A; Molecule type: mRNA
A; Molecule type: mRNA
A; Molecule type: mRNA
A; Molecule type: DIDA
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A;Residues: 1-406, R',408-433, 'G',435-453, 'G',455-459, 'Q',461-546,'A',548-566,'R',568-59;
A;Cross-references: UNIPARC:UPI0000151BFF; GB:M75161; NID:g183612; PIDN:AAAS8617.1; PID:g
A;Note: this sequence has been revised in reference JG1284
R;Bateman, A.; Belcourt, D.; Bennett, H.; Lazure, C.; Solomon, S.
                                                                                                                                                                                                                                                                                                               Afficients type: mRNA
Afficients 1-250 «GRA»
Afficients 1-250 «GRA»
Afficients 1-250 «GRA»
Afficients are defences: UNIPROT: P41272, UNIPARC: UPI0000023489
Afficients references: UNIPROT: P41272, UNIPARC: UPI0000023489
Afficients are defenced from NGBI backbone (NCBIN: 128168)
C; Superfamily: CD27 antigen; NGF receptor repeat homology
C; Superfamily: CD27 antigen; NGF receptor repeat homology
F; 1-250/Pomain: asgnal sequence flatatus predicted «SIG»
F; 21-250/Pomain: extracellular flatatus predicted «MAT»
F; 21-182/Domain: NGF receptor repeat homology «NGI»
F; 55-105/Domain: NGF receptor repeat homology «NGI»
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A;Title: Structure and chromosomal location of the human granulin gene.
A;Reference number: JC1284; WUID:93038704; PMID:1417868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                F;95,162/Binding site: carbohydrate (Asn) (covalent) #status predicted
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.183-202/Domain: transmembrane #status predicted <TWN>
.203-250/Domain: intracellular #status predicted <INT>
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Best Local Similarity
Matches 35; Conserv
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                                                C;Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A43434
R;Roebroek, A.J.; Creemers, J.W.; Pauli, I.G.; Kurzik-Dumke, U.; Rentrop, M.; Gateff, E. J. Biol. Chem. 267, 17208-17215, 1992
A;Title: Cloning and functional expression of Dfurin2, a subtilisin-like proprotein proc A;Recerence number: A43434; MUID:92381036; PMID:1512259
A;Roccession: A43434; MUID:92381036; PMID:1512259
A;Accession: A43434
A;Status: preliminary
A;Molecule type: mRNA
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1.1680 «ROE>
A;Cross-references: UNIPROT:P30432; UNIPARC:UPI000016BC03; GB:M94375; NID:g157461; PID:g
A;Access-references: FlyBase:Flow
C;Genetics:
A;Gene: FlyBase:Flux
A;Gene: FlyBase:Flux
A;Gene: FlyBase:Flux
A;Cross-references: FlyBase:FlyBase:Flux
C;Genetics:
A;Gene: RiyBase:Flux
A;Cross-references: FlyBase:FlyBase:Flux
B;Genetics:
A;Gene: RiyBase:Flux
B;Genetics:
A;Genetics:
A;G
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*Kesidues: 1-158 «NAK»
A;Cross-references: UNIPROT:Q04592; UNIPARC:UP1000016CF9E; GB:D17583; NID:g407344; PIDN:
C;Keywords: hydrolase; serine proteinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ಹ
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C;Species: Mus musculus (house mouse)
C;Date: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: S34583
R;Nakagawa, T.; Murakami, K.; Nakayama, K.
R;Nakagawa, T.; Murakami, K.; Nakayama, K.
A;Tible: Identification of an isoform with an extremely large Cys-rich region of PC6, A;Reference number: S34583; MUID:93327934; PMID:8335106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60 W---PHSQVAEERMAG------GDVQCGTSYPSTFLLWPHCLLSVSNMPCSSLP-- 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 CPEEQYWAALLGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQSTLWPHS 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A49053
CD27 antigen precursor - mouse
NiAlternate names: CD27L receptor; T cell activation antigen CD27
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 19-Dec-1993 #sequence_revision 22-Apr-1995 #text_change 09-Jul-2004
C;Accession: A49053
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SCPEEQYWAALLGTCMFCKAICNHQSQRTC---AASCGEFWDLSPGDSVITPNACPQSTL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       64 QVAEBRMAGGDVQCGTSYPSTFLLWPHCLLSVSNMPCSSLPRVLCTCCSRCLE 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 1680;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 2; Length 1548;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10.5%; Score 84.5; DE
28.3%; Pred. No. 8.9;
:ive 14; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 83.5; D
Pred. No. 10;
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 29.3%;
Matches 39; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1064 ROCVPCHKNCLEC 1076
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Best Local Similarity 28.33
Matches 32; Conservative
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A, Introns: 46/3; 88/3; 117/1; 154/3; 200/1; 236/3; 279/1; 311/3; 393/3; 471/3; 548/3
A, Introns: 46/3; 88/3; 117/1; 154/3; 200/1; 236/3; 279/1; 311/3; 393/3; 471/3; 548/3
C, Keywords: glycoprotein; tandem repeate predicted <8IG>
F;18-53/Product: granulin #status predicted <ARO>
F;18-53/Product: granulin #status predicted <ARO>
F;18-44/Product: granulin #status predicted <ARO>
F;18-7179/Product: granulin G #status predicted <ARO>
F;26-261/Product: granulin A #status experimental <ARO>
F;26-261/Product: granulin A #status experimental <ARO>
F;364-417/Product: granulin D #status predicted <ARO>
F;364-417/Product: granulin B #status predicted <ARO>
F;364-417/Product: granulin B #status predicted <ARO>
F;368-373/Product: granulin B #status predicted <ARO>
F;368-373/Product: granulin B #status predicted <ARO>
F;368/Binding site: carbohydrate (Asn) (covalent) #status experimental
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LWP-HSQVAEERMAGGDVQCG--TSYPSTFLLWPHCLLSVSNMPCSSLPRVLCT----C 110
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A; Residues: 442-446, 'XDTSS', 456-458, 'DG' <BA4>
A; Residues: UNIPARC; UPI00001744F5
R; Kardana, A; Bagshawe, K.D.; Coles, B.; Read, D.; Taylor, M.
Br. J. Cancer 67, 686-692, 1993
A; Title: Characterisation of UGP and its relationship with beta-core fragment.
A; Reference number: A56873; MUID: 93229246; PMID: 8471426
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Biochem. Biophys. Res. Commun. 173, 1161-1168, 1990
A; Title: Granulins, a novel class of peptide from leukocytes.
A; Reference number: A36698; MUID:91097544; PMID:2268320
A; Accession: A36698
A; Molecule type: protein
A; Residues: 281-336 -8AT>
A; Cross-references: UNIPARC:UP100001744F2
A; Cross-references: UNIPARC:UP100001744F2
A; Molecule type: protein
A; Residues: 266-218, 'H', 220-233 -8AZ>
A; Molecule type: protein
A; Residues: 206-218, 'H', 220-233 -8AZ>
A; Cross-references: UNIPARC:UP100001744F3
A; Cross-references: UNIPARC:UP100001744F3
A; Accession: C36698
A; Accession: C36698
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                                                                                                                                                                                                                                                                                                                                                                                                                 A; Residues: 364-367, X7, 369-385, H7, 387-396 <BA3>
A; Residues: 364-367, X7, 369-385, H7, 387-396 <BA3>
A; Cross-references: UNIPARC:UP10001744F4
A; Note: this protein was purified and characterized as granulin
A; Accession: D36698
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A;Cross-references: UNIPARC:UPI000070B1B
A;Experimental source: urine
A;Note: sequence extracted from NCBI backbone (NCBIP:129524)
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hyporhetical protein DKFZp434E2321.1 - human (fragment) C,Species: Homo sapiens (man) C,Date: 21-Jan-2000 #sequence\_revision 21-Jan-2000 #text\_change 09-Jul-2004

RESULT 9

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Balbiani ring 3 protein - midge (Chironomus tentans)
C;Species: Chironomus tentans
C;Species: Chironomus tentans
C;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 16-Aug-2004
C;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 16-Aug-2004
C;Accession: G3167
B;Paulsson, G.; Lendahl, U.; Galli, J.; Ericsson, C.; Wieslander, L.
J. Mol. Biol. 211, 331-349, 1990
A;Reference number: S08167; MUID:90172404; PMID:1689777
A;Reference number: S08167
A;Reference
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C;Species: Homo sapiens (man)
C;Abte: 22-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Accession: JE0095
R;van de Bovenkamp, J.H.B.; Hau, C.M.; Strous, G.J.A.M.; Bueller, H.A.; Dekker, J.; Eine?
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             130 GWS-QPGN--IVAGAVPRAL--PSQRDMENGVEGGPPPSRCGN---SSELFWAKCGPSRQ 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       40 -WDLSPGDSVITPNACPQSTLWPHSQVAEERWAGGDV--QCGTSYPSTFLLWPHCLLSVS 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 SCP-EEQYWAALLGTCMFCKAIC-NHQSQRTCAASCGEFWDLSPGD-SVIT-----
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C; Accession: T43457
R; Blum, H.; Bauersachs, S.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S. submitted to the Protein Sequence Database, December 1999
A; Reference number: Z22517
A; Accession: T43457
A; Status: preliminary
A; Nolecule type: mRNA
A; Residues: 1-349 < AAA>
A; COSS-references: UNIPROT: Q9UF43; UNIPARC: UPI0000072EF6; EMBL: AL133619
A; Experimental source: adult testis; clone DKFZp434E2321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              49;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10.0%; Score 80; DB 2; Length 349; 25.9%; Pred. No. 5.9; ive 13; Mismatches 46; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10 WAALLGT-----CMPCKAICN-----HQSQRTCAASCGEF-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97 NMPCSS-----LPRVLCTCCSRC 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         182 POPCSAGDADRTREEAMLSLGTCCSMC 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             91 CLLSVSNMPCSSLPRV---LCTCCSRCLEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGCGDVNRNCGNLKNFNDNLCQC-----EC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 10.0%
Best Local Similarity 25.9%
Matches 38; Conservative
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A; Note: DKFZp434E2321.1
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A, Status: preliminary
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Biochem. Blophys. Res. Commun. 245, 853-859, 1998
ArTitle: Molecular cloning of human gastric mucin MUCSAC reveals conserved cysteine-rich A;Reference number: JE0095, MUID:98249803; PMID:9588204
A;Accession: JE0095
A;Accession: JE0095
A;Accession: JE0095
A;Residues: 1-1373 <BOV>
A;Residues: 1-1373 <BOV>
A;Residues: 1-1373 <BOV>
A;Residues: 2100xce: stomach
A;Residues: Jenoxce: stomach
A;Residues: Jenoxce: stomach
B;1-19/Domain: signal sequence #status predicted <SIG>
F;1-19/Domain: leucine zipper #status predicted <LZP>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Introns: 139/3; 246/3; 487/3; 784/1; 960/2; 1067/3; 1113/3; 1171/3; 1321/2; 1383/3; 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      UNIPARC: UPI00000761CD; EMBL: Z70038; PIDN: CAA93884.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1627 AAKCGEECTLVSECSQLVGMPLSCGHIKQLTCSKISANBI---DLTCDQRCEKTMLACPH 1683
                                                                                                                                                                                                                                                                                                                                                                                                         630 QHWCSQLTDADGPFGRCHAAVKPGTYYSNCMFDTCNCERSEDCLCAALSSYVHACAAKGV 689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        690 QLGGW----RDGVCTKPMTTCPKSMTY-HYHVSTCQPTCRSLSEGDITCSVGFIPVDGCI 744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 90
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T27684
R;Thomas, K.
R;Thomas, K.
A;Reference number: Z20404
A;Accession: T27684
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receptor-like tyrosine kinase Ehk-1 - rat
cSpecies: Rattus norvegicus (Norway rat)
CSpecies: 07-May-1995 #sequence_revision 21-Jul-1995 #text_change 29-May-1998
CSAccession: S51604
R:Maisonpierre, P.C.; Barrezueta, N.X.; Yancopoulos, G.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 33 AASCGEFWDLSPGDSVIT--PNACPOSTLWPHSQVAEERMAGGDVQCGTSYPSTFLLWPH
                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ---FWDLSPGDSVITP--NACPQSTLWPHSQVAE----ERMAGGDVQCGTSY----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    --PSTFLLWPHCLLSVSNMPC----SSLPR-----VLCTCCSRCLECM 118
                                                                                                                                                                                                                                                                                                              65;
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                                                                                                                                                                                                                                                            Query Match 9.8%; Score 78.5; DB 2; Length 1 Best Local Similarity 22.8%; Pred. No. 26; Matches 39; Conservative 14; Mismatches 53; Indels
                                                                                                                                                                                                                                                                                                                                                          8 QYWAALL-----GT----GT----CMFCKAICNHQSQRTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R;Maisonpierre, P.C.; Barrezueta, N.X.; Yancopoulos, G.D.
Oncogene 8, 3277-3288, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   T27684
hypothetical protein ZK1067.2 - Caenorhabditis elegans
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Rosidues: 1.2219 -WILD-
A;Cross-references: UNIPROT:Q23388; UNIPARC:UPI00000
A;Experimental source: clone ZK1067
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 9.7%; Score 77.5; I
Best Local Similarity 20.9%; Pred. No. 48;
Matches 31; Conservative 16; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ----VECM 1698
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A,Gene: CESP:ZK1067.2
A,Map position: 2
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A;Title: Ehk-1 and Ehk-2: two novel members of the Eph receptor-like tyrosine kinase fam
A;Reference number: 849015; WUID:94067777; PMID:7504232
A;Accession: 851604
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Oncogene 8, 3277-3288, 1993
A;Title: Ehk-1 and Ehk-2: two novel members of the Eph receptor-like tyrosine kinase fam
A;Reference number: S49015; MUID:94067777; PMID:7504232
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A;Residues: 1-305,'G',359-1005 <MA2>
A;Crose-references: UNIPARC:UFINO00175655, EMBL:S68026
A;Note: the authors translated the codon GAC for residue 170 as Glu
C;Superfamily: protein-tyrosine kinase, receptor type eph; fibronectin type III repeat ht
C;Superfamily: protein-tyrosine protein (KINS)
F;675-941/Domain: protein kinase homology <KINS)
F;683-691/Region: protein kinase ATP-binding motif
                                                                                                                                                        A, Molecule type: mRNA
A, Residues: 1-91 cMAL.
A, Residues: 1-91 cMAL.
A, Cross-references: UNIPARC: UPI0000175666; EMBL:868029
A, Note: the authors translated the codon GAC for residue 170 as Glu
C; Superfamily: protein-tyrosine kinase, receptor type eph; fibronectin type III repeat I
C; Keywords: ATP; transmembrane protein
F; 659-667/Region: protein kinase homology <KIN>
F; 659-667/Region: protein kinase ATP-binding motif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       278 CSAEGEWLVPIGKCM-CKA-GYEEKNGTCQVCRPGFFKASPHSQ--TCSKCP----PHS 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                64 QVAEERMAGGDVQCGTSY-----PSTFLLWPHCLLSVSNMPCSSLPRVLCTCCSRCLEC 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ----MACTRPPSAPRNAISNVNE- 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               64 QVAEERMAGGDVQCGTSY-----PSTFLLWPHCLLSVSNMPCSSLPRVLCTCCSRCLEC 117
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              receptor tyrosine kinase Bhk-1 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: [4-Jul-1995 #sequence_revision 21-Jul-1995 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          278 CSAEGEWLVPIGKCM-CKA-GYEEKNGTCQVCRPGFFKASPHSQ--TCSKCP----PHS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 CPEEQYWAALLGTCMFCKAICNHQSQRTCAASCGEFWDLSPGDSVITPNACPQSTLWPHS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61; Indels
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Best Local Similarity 26.5%; Pred. No. 26;
Matches 36; Conservative 7; Mismatches 61
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A;Molecule type: mRNA
A;Residues: 1-1005 <MAI>
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RESULT 15
B64455
D61475
D61476
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20.8%; Pred. No. 12;
tive 20; Mismatches
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Job time : 41 secs
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hes 30; Conservative
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Best Local S:
Matches 30
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